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Title 46—SHIPPING

Chapter I—Coast Guard, Department of the Treasury

SUBCHAPTER N—DANGEROUS CARGOES

[CGFR 66-28]

PART 146—TRANSPORTATION OR STORAGE OF EXPLOSIVES OR OTHER DANGEROUS ARTICLES OR SUBSTANCES, AND COMBUSTIBLE LIQUIDS ON BOARD VESSELS

Miscellaneous Amendments

Pursuant to the notice of proposed rule making published in the **FEDERAL REGISTER** of February 10, 1966 (31 F.R. 2602-2614), and the Merchant Marine Council Public Hearing Agenda dated March 21, 1966 (CG-249), the Merchant Marine Council held a Public Hearing on March 21, 1966, for the purpose of receiving comments, views, and data. The proposals considered were identified as Items I to XII, inclusive. Item III contained proposals regarding dangerous cargoes (CG-249, III, pages 16 to 62, inclusive), and these proposals, as revised, are adopted and set forth in this document, with the exception of the vessel inspection regulations in Item IIIc (CG-249, III, pages 48 to 58, inclusive) regarding vessels specially suitable as vehicle carriers, which will be published in a separate document containing vessel inspection amendments. This document is the first of a series regarding proposals considered by the Merchant Marine Council at this public hearing.

The oral and written comments received were considered and changes based thereon were made in the proposals 46 CFR 146.02-11, Import shipments; 146.04-5, for Rubber curing compounds; 146.06-15, Information required on manifests; 146.07-1, for the applicability of regulations to vehicle carrying ocean-going vessels; and 146.27-30, Automobiles or other self-propelled vehicles offered for transportation with fuel tanks containing gasoline.

The Merchant Marine Council's recommendation to reject the proposal designated 46 CFR 146.29-35(e), to give the Captain of the Port authority to permit the use of power operated tools in holds containing military explosives except as noted otherwise in Item IIIc (CG-249, III, page 48), is adopted. The text of 46 CFR 146.29-35(e) is continued in effect without change in present practices and procedures.

The provisions of R.S. 4472, as amended (46 U.S.C. 170), require that the land and water regulations governing the transportation of dangerous articles or substances shall be as nearly parallel as practical. The provisions in 46 CFR 146.02-18 and 146.02-19 make the Dangerous Cargo Regulations applicable to all shipments of dangerous cargoes by vessels. The Interstate Commerce Commission in Change Order No. 72 has made changes in ICC regulations with

E. 1240 feet to a steel pipe set in the ground for corner No. 6; thence N. 13°24' E. 402.6 feet to the point of beginning which is corner No. 1.
Totaling 7.8 acres.

Kit Carson Administrative Site

T. 27 N., R. 15 E., unsurveyed,
A tract of land within the unsurveyed SE¼, sec. 5, sec. 4, more particularly described as: Beginning at blazed post on the north end of a cattle guard on the Nezperce Trail Road which is corner No. 1 from which the northeast corner of the Hells Half Acre bridge bears N. 60° W., 231 feet distant; thence N. 38°50' W., 906.3 feet to a point which is corner No. 2 located north of the Nezperce Trail Road; thence S. 86°32' W., 2,668.8 feet to a blazed post which is corner No. 3 from which the northwest corner of the Cayuse Creek bridge bears S. 20° W., 416 feet distant; thence S. 62°46' W., 636.3 feet to a point which is corner No. 4; thence north 1,320.5 feet to a point which is corner No. 5; thence S. 61°15' W., 1,057.4 feet to a point which is corner No. 6; thence S. 1319.5 feet to a point which is corner No. 7; thence S. 56°33' W., 1,239.3 feet to a point which is corner No. 8; thence S. 16°21' E., 293.0 feet to a point which is corner No. 9; thence N. 74°59' E., 2,523.0 feet to a point which is corner No. 10; thence N. 77°52' E., 2,458.4 feet to a point which is corner No. 11; thence S. 84°49' E., 792.8 feet to a point which is corner No. 12; thence N. 21°19' E., 127.9 feet to the point of beginning which is corner No. 1.
Totaling 132.3 acres.

Raven Creek Campground

T. 26 N., R. 13 E., unsurveyed,
A tract of land within the unsurveyed NE¼, sec. 13, more particularly described as: Beginning at a 1½-inch pipe with a USDA, Forest Service, brass cap marked Raven Creek Recreation Area corner No. 1 set in the ground on the west side of road No. 223 and on the east bank of the Selway River from which a 14-inch diameter Douglas-fir tree marked M/W bears N. 52°00' W., 11 links distant and a 6-inch diameter alpine fir marked M/W bears N. 69° E., 51 links distant; thence N. 68°00' E., 270.6 feet to a steel peg set in the ground which is corner No. 2; thence N. 45°00' E., 105.6 feet to a steel peg set in the ground which is corner No. 3; thence N. 12°00' E., 171.6 feet to an angle iron peg set in the ground which is corner No. 4; thence N. 41°00' W., 178.2 feet to a steel peg set in the ground which is corner No. 5; thence S. 39°00' W., 369.6 feet to an iron peg set in the ground which is corner No. 6; thence S. 4°20' W., 189.1 feet to the place of beginning which is corner No. 1.
Totaling 2.2 acres.

Indian Creek Campground

T. 26 N., R. 14 E., unsurveyed,
A tract of land within the unsurveyed SW¼, sec. 5 and SE¼, sec. 6, more particularly described as: Beginning at a 1½-inch pipe with a USDA, Forest Service, brass cap marked "Indian Creek Recreation Area, Corner No. 1" which is corner No. 1 from which a 16-inch diameter Douglas-fir tree marked M/W bears N. 35° W., 15 links distant, a 16-inch diameter Douglas-fir tree marked M/W bears S. 61° E., 27 links distant, 10-inch diameter Douglas-fir tree bears N. 72° E., 46 links distant and the junction of the east bank of the Selway River and the south bank of Indian Creek bears north 198 feet, thence E.

09°00' W., 481.8 feet to a steel peg set in the ground on the east bank of the Selway River which is corner No. 2; thence S. 10°00' E., 231 feet to a steel peg set in the ground on the east bank of the Selway River which is corner No. 3; thence S. 01°00' W., 165 feet to a steel peg set in the ground on the east bank of the Selway River which is corner No. 4; thence S. 47°00' E., 264 feet to a steel peg set in the ground which is corner No. 5; thence N., 87°00' E., 171.6 feet to a steel peg set in the ground which is corner No. 6; thence N. 34°00' E., 356.4 feet to a steel peg set in the ground which is corner No. 7; thence N. 20°00' E., 620.4 feet to a steel peg set in the ground which is corner No. 8; thence N. 64°00' W., 554.4 feet to the N.E. post of the Indian Creek bridge which is corner No. 9; thence S. 71°38' W., 283.8 feet to the point of beginning which is corner No. 1.
Totaling 14.9 acres.

NEZPERCE NATIONAL FOREST

Table Meadows Camp

T. 30 N., R. 8 E.,
Unsurveyed, but which probably will be when surveyed: Sec. 18, NW¼NW¼SE¼SW¼, S½NW¼SE¼SW¼, NE¼SW¼SE¼SW¼, and NW¼SE¼SE¼SW¼.
Totaling 12.6 acres.

Sing Lee Camp

T. 29 N., R. 7 E.,
Unsurveyed, but which probably will be when surveyed: Sec. 5, SW¼NW¼NE¼NW¼, W¼SW¼NE¼NW¼, E½E½NW¼NW¼, and NW¼NW¼SE¼NW¼.
Totaling 20.0 acres.

Selway Falls Camp

T. 31 N., R. 9 E.,
Unsurveyed, but which probably will be when surveyed: Sec. 11, E½SE¼NW¼NE¼, E½E½NW¼SE¼, and NE¼NE¼SW¼SE¼.
Totaling 17.5 acres.

Race Creek Camp

T. 31 N., R. 9 E.,
Unsurveyed, but which probably will be when surveyed: Sec. 12, N¼SW¼NE¼NW¼ and NE¼SE¼NW¼NW¼.
Totaling 7.5 acres.

CLEARWATER NATIONAL FOREST

Moscow Bar Campground

T. 40 N., R. 8 E.,
Unsurveyed, but which probably will be when surveyed: Sec. 29, SE¼SE¼NE¼SW¼, E½NE¼SE¼SW¼, SW¼NE¼SE¼SW¼, NE¼SW¼SE¼SW¼, S½SW¼SE¼SW¼, SE¼SE¼SW¼, SW¼NW¼SE¼, and W¼SW¼SE¼.
Totaling 57.50 acres.

The areas described aggregate 294.2 acres in Clearwater and Idaho Counties, Idaho.

2. The withdrawal made by this order does not alter the applicability of those public land laws governing the use of the national forest lands under lease, license, or permit, or governing the disposal of their mineral or vegetative resources other than under the mining laws.

HARRY R. ANDERSON,
Assistant Secretary of the Interior.

JUNE 6, 1966.

[F.R. Doc. 66-6433; Filed, June 13, 1966; 8:46 a.m.]

RULES AND REGULATIONS

respect to definitions, descriptive names, classifications, specifications of containers, packing, marking, labeling, and certification for certain dangerous cargoes, which are now in effect for land transportation. Various amendments to the Dangerous Cargo Regulations in 46 CFR Part 146 have been included in this document in order that these regulations governing water transportation of certain dangerous cargoes will be as nearly parallel as practicable with the regulations of the Interstate Commerce Commission which govern the land transportation of the same commodities.

The amendments to 46 CFR Part 146, which were not described in the FEDERAL REGISTER of February 10, 1966 (31 F.R. 2603-2306), are considered to be interpretations of law, or revised requirements to agree with existing ICC regulations, or editorial in nature, and it is hereby found that compliance with the Administrative Procedure Act (respecting notice of proposed rule making, public rule making procedure thereon, and effective date requirements thereof) is unnecessary with respect to such changes.

By virtue of the authority vested in me as Commandant, U.S. Coast Guard, by section 832 of Title 14, U.S. Code, and Treasury Department Orders 120, dated July 31, 1950 (15 F.R. 6521), and 167-14, dated November 26, 1954 (19 F.R. 8026), to promulgate regulations in accordance with the laws cited with the regulations below, the following amendments are prescribed and shall be effective July 1, 1966; however, the regulations in this document may be complied with in lieu of existing requirements prior to that date.

Subpart 146.01—Preface

1. Section 146.01-1 is amended by changing the text to read as follows:

§ 146.01-1 Purpose of regulations.

The purpose of the regulations in this subchapter is to promote safety in the handling, stowage, storage, and transportation of explosives or other dangerous articles or substances, and combustible liquids, as defined herein, on board vessels on any navigable waters within the limits of the jurisdiction of the United States including its territories and possessions excepting only the Panama Canal Zone and to make more effective the provisions of the International Convention for the Safety of Life at Sea, 1960, relative to the carriage of dangerous goods.

2. Section 146.01-4 is amended by deleting all the present text and inserting in lieu thereof:

§ 146.01-4 Classifications.

(a) Explosives or other dangerous articles or substances and combustible liquids are classified in the regulations in this part according to their principal characteristics and properties. These classifications are set out below comparatively with the International Convention for the Safety of Life at Sea, 1960, classifications:

Solas 1960 classifications

Class 1—Explosives

Class 2—Gases: Compressed, liquefied, or dissolved under pressure.

Class 3—Inflammable liquids

Class 4—Inflammable solids, substances which are spontaneously combustible or substances emitting inflammable gases when wet.

Class 5—Oxidizing substances and organic peroxides.

Class 6—Poisonous (toxic) and infectious substances.

Class 7—Radioactive materials

Class 8—Corrosives

Class 9—Miscellaneous dangerous substances

Coast Guard classifications

Explosives:

Class A—Dangerous explosives.
Class B—Less dangerous explosives.
Class C—Relatively safe explosives.
Compressed gases.

Inflammable liquids and combustible liquids.

Inflammable solids.

Oxidizing materials.

Poisons:

Extremely dangerous poison, Class A.
Less dangerous poison, Class B.
Tear gas or irritating substances, Class C.

Radioactive materials, Class D.

Corrosive liquids.

Hazardous articles.

(b) The classifications in column 1 may be used on dangerous cargo manifests, lists or stowage plans and other shipping documents to describe dangerous articles that are being offered to water carriers for transportation in export trade or that are imported for ultimate delivery within the same port area.

Subpart 146.02—General Regulations

3. Section 146.02-10 is amended by changing paragraph (b) to read as follows:

§ 146.02-10 Export shipments.

(b) Export shipments of explosives or other dangerous articles or combustible liquids (except commercial Class A explosives and radioactive materials, Groups I, II, and III) may be accepted for transportation when packed, marked, labeled and described in accordance with the regulations of the country of destination. The bill of lading or other shipping paper shall identify such shipments by the shipping name shown in the regulations in this part for the particular substance, and also shall certify that the packing, marking and labeling is in accordance with the foreign regulations and identify by title or otherwise such foreign regulations. Markings on export packages may be in the language of the country of destination. Labels shall be affixed or printed or stamped upon such export packages when offered for transportation in lots of one hundred (100) or less packages. Stowage on board a vessel shall be in accordance with the regulations in this part as applicable to the particular character of vessel.

4. Section 146.02-11 is amended by changing paragraphs (b) and (c) to read as follows:

§ 146.02-11 Import shipments.

(b) Import shipments of explosives or other dangerous articles (except commercial Class A explosives and radioactive materials, Groups I, II, and III) destined upon arrival at domestic ports for further transportation outside the port area, in original containers, by com-

mon, contract, or private carrier, must comply with the Interstate Commerce Commission regulations for the transportation of explosives or other dangerous articles in effect at the time of shipment. The importer shall furnish with the order to the foreign shipper, and also to the forwarding agent at the port of entry, full and complete information as to packing, marking, labeling and other requirements as prescribed by the Interstate Commerce Commission regulations (see § 146.05-14).

(c) Import shipments of explosives or other dangerous articles or combustible liquids (except commercial Class A explosives and radioactive materials, Groups I, II, and III) accepted for transportation in a foreign port in outside metal or wooden barrels or drums not exceeding 110 gallons capacity, wooden boxes not exceeding 300 pounds weight of box and contents, or fiberboard boxes not exceeding 65 pounds weight of box and contents, which upon arrival at domestic ports are not destined for transportation outside the port area in these original import containers by common, contract, or private carrier, may be carried on board vessels provided the shipper certified upon the bill of lading or other shipping paper that the packing, marking and labeling are in conformity with the regulations of the country of origin. If the country of origin has no regulations governing the transportation by vessel of the explosives and dangerous substances involved, containers of the type described above in this paragraph may be carried on board vessels, provided that the shipper shall certify that the container is so constructed as to maintain its complete integrity under all conditions likely to be encountered in transportation. The master of the vessel, before accepting such import shipments, shall satisfy himself that the containers are sufficiently strong to stand, without rupture or leakage of contents, all risks ordinarily incident to transportation. Stowage of import shipments on board vessels shall be in accordance with the provisions of the regulations in this part.

Subpart 146.03—Definitions of Words and Terms Contained Within The Regulations in This Subchapter

5. Section 146.03-36 is amended by changing paragraph (a) (1) to read as follows:

§ 146.03-36 Vessels defined.

For the purposes of the regulations in subchapter passenger carrying vessels or passenger vessels, barges and cargo vessels are defined as follows:

(a) *Passenger carrying vessels or passenger vessels.* (1) A passenger carrying vessel or a passenger vessel is any vessel which carries passengers: *Provided*, That no vessel of the following classes shall be considered a passenger carrying vessel or a passenger vessel:

(i) Any vessel subject to any of the provisions of the International Convention for the Safety of Life at Sea, 1960, which neither carries nor is authorized to carry more than 12 passengers.

(ii) Any cargo vessel documented under the laws of the United States and not subject to that Convention which neither carries nor is authorized to carry more than 16 persons in addition to the crew.

(iii) Any cargo vessel of any foreign nation that extends reciprocal privileges and not subject to that Convention which neither carries nor is authorized to carry more than 16 persons in addition to the crew.

Subpart 146.04—List of Explosives or Other Dangerous Articles Containing the Shipping Name or Description of Articles Subject to the Regulations in This Subchapter

§ 146.04-5 [Amended]

6. Section 146.04-5 is amended by adding, changing, or cancelling certain items as follows:

Article	Classed as—	Label required ¹
<i>Items added</i>	...	...
Igniters, rocket motor, class A explosives	Expl. A	...
Igniters, rocket motor, class B explosives	Expl. B	...
...
Para-quinone dioxime (see "Rubber curing compounds (solid)")	...	...
...
Rocket engines (liquid), class B explosives	Expl. B	...
Rocket motors, class A explosives	Expl. A	...
Rocket motors, class B explosives	Expl. B	...
...
*Rubber curing compounds (solid)	Haz	...
...
<i>Items changed</i>	...	...
...
Automobiles, motorcycles, tractors, other self-propelled vehicles, or mechanized equipment, new or used, when offered for transportation without boxing or crating and containing gasoline, or other motor fuel within the fuel tank.	Haz	...
Automobiles, motorcycles, tractors, other self-propelled vehicles or mechanized equipment, new or used, with or without boxing or crating and containing no gasoline or other motor fuel within the motor or fuel tank. (See: "Automobiles, motorcycles, tractors, other self-propelled vehicles, or mechanized equipment, etc.")	...	...
...
Guided missiles without warheads (see "Rocket motors, class A explosives" or "Rocket motors, class B explosives")	...	...
...
<i>Items canceled</i>	...	...
...
*Rocket ammunition without projectiles	Expl. B	...
...

¹ Unless otherwise exempt by the provisions of the detailed regulations.

Subpart 146.05—Shipper's Requirements re: Packing, Marking, Labeling, and Shipping Papers

7. Section 146.05-11 is amended by changing paragraph (a), adding a new paragraph (d) and redesignating paragraph (d) as (e) as follows:

§ 146.05-11 Certification.

(a) The shipper offering for transportation by vessels subject to the regu-

lations in this part any Class A, Class B or Class C explosive, and any inflammable liquid, inflammable solid, oxidizing material, corrosive liquid, compressed gas, or poison shall show the following certificate in the lower lefthand corner of the originating shipping paper over the written or stamped facsimile signature of the shipper or of his duly authorized agent:

This is to certify that the above articles are properly described by name, and are packed and marked and are in proper con-

dition for transportation according to the regulations prescribed by the Interstate Commerce Commission.

(d) For export and import shipments of dangerous cargo not destined to be transported by land under the jurisdiction of the Interstate Commerce Commission as covered in §§ 146.02-10(b) and 146.02-11 (c) and (d), the shipper may certify on the bill of lading or other shipping paper that the dangerous articles are properly packed, marked, labeled and are in proper condition for transportation according to the regulations of the country of origin or destination as the case may be. The regulations must be identified by name.

(e) Detailed regulations in §§ 146.21-100 to 146.27-100 require specific certification for certain substances. When these substances are required to be certificated under paragraph (a), (b), or (c) of this section the certificate required by the detailed regulations shall be in addition thereto.

8. Section 146.05-12 is amended by changing paragraph (f) (5) to read as follows:

§ 146.05-12 Originating shipping order, transfer shipping paper.

(f) The minimum information required by this section to be shown upon an originating shipping order is as follows:

(5) Shipping name of each article, as shown in roman type in the commodity list herein. Further description not inconsistent with the shipping name may be shown. Unauthorized abbreviations shall not be used. See § 146.01-4. For other than domestic shipments, when the proper shipping name of a commodity is an "N.O.S." entry in the particular table, this term shall be qualified by the chemical name of the commodity in parentheses, e.g., "Corrosive liquid, N.O.S. (caprylyl chloride)."

9. Section 146.05-15 is amended by changing paragraph (e) (1) to read as follows:

§ 146.05-15 Marking and labeling applying to domestic shipments only.

(e) The marking of containers of Other Dangerous Articles of Substances shall be as follows:

(1) Each package containing inflammable liquids, inflammable solids, oxidizing materials, corrosive liquids, compressed gases, or poisons as defined herein shall be marked with the proper shipping name, as shown in the commodity list of the regulations in this part. For tank cars this marking shall appear on either the placards or commodity cards. For other than domestic shipments, when the proper shipping name of a commodity is an "N.O.S." entry in the particular table, this marking shall be qualified by the chemical name of the commodity in parentheses.

e.g., "Corrosive liquid, N.O.S. (caprylyl chloride)."

Subpart 146.06—Vessel's Requirements, re: Acceptance, Handling, Stowage, etc.

10. Section 146.06-15 is amended by changing paragraph (b) (3) and (5) as follows:

§ 146.06-15 Information required on manifests, lists, or stowage plans.

(b) This manifest, list or stowage plan shall show thereon the following information:

(3) True shipping name of the substance as given in the commodity list of the regulations in this part. For other than domestic shipments, when the shipping name of a commodity is an "N.O.S." entry in the particular table, this entry shall be qualified by the chemical name of the commodity in parentheses, e.g., "Corrosive liquid, N.O.S. (caprylyl chloride)."

(5) Classification of the substances in accordance with the regulations in this part (such as explosive, inflammable liquid, compressed gas, hazardous article, etc.). See § 146.01-4.

Subpart 146.07—Railroad Vehicles, Highway Vehicles, Vans or Portable Containers Loaded With Explosives or Other Dangerous Articles and Transported on Board Ocean Vessels

11. Section 146.07-1 is revised to read as follows:

§ 146.07-1 Applicability and definitions.

(a) The regulations in this subpart apply to railroad vehicles, highway vehicles, vans and portable containers in which are loaded any permitted explosives or other dangerous articles or substances, as defined in this part, when transported, carried, or conveyed on board any ocean-going vessel subject to the regulations in this part.

(b) For purposes of the regulations in this subpart the following definitions apply:

(1) A railroad vehicle is a cargo carrying body or tank permanently attached to an underframe and wheels (box car, tank car, etc.) which is loaded, stowed, and discharged as a unit. Tank car units shall be handled by "roll-on/roll-off" methods on vessels specially equipped for their securing or as provided in subparagraph (5) of this paragraph.

(2) A highway vehicle is a cargo carrying body or tank permanently attached to the chassis and wheels which is loaded, stowed and discharged as a unit. Tank vehicle units shall be handled by "roll-on/roll-off" methods on vessels specially equipped for their securing or as provided in subparagraph (6) of this paragraph.

(3) A van is a cargo carrying body other than a tank container which is designed and constructed to be removed from a chassis and wheels for water transportation. It is loaded and discharged by a "lift-on/lift-off" method.

(4) A portable container is a cargo carrying unit other than a "van" which is designed to be loaded or discharged by a "lift-on/lift-off" method. Portable containers shall be ICC specification portable containers (ICC-51, ICC-60) and/or shall be approved by the Commandant, U.S. Coast Guard.

(5) A trainship is a vessel other than a railroad car ferry or carfloat designed to transport railroad vehicles. If special loading and discharging gear is provided for the tank cars, which will not add additional stresses to the tank structure, they may be handled by this gear without the loading and discharging limitations of subparagraph (1) of this paragraph being applicable to this vessel.

(6) A trailership is a vessel other than a highway vehicle ferry or carfloat designed to transport highway vehicles. If special loading and discharging gear is provided for the tank vehicles, which will not add additional stresses to the tank structure, they may be handled by this gear without the loading and discharging limitations of subparagraph (2) of this paragraph being applicable to this vessel.

(7) A containership is a vessel designed to transport vans or portable containers.

12. Section 146.07-10 is amended by changing paragraph (a) to read as follows:

§ 146.07-10 Tank containers.

(a) Railroad or highway vehicles to which is attached a tank containing any explosives or other dangerous articles or substances shall not be offered or accepted for transportation on board any vessel unless such articles or substances are permitted by the regulations in this part to be carried on board a vessel in this manner, and provided there is compliance with the regulations in this subpart.

Subpart 146.20—Detailed Regulations Governing Explosives

§ 146.20-90 [Amended]

13. Section 146.20-90 is amended by changing the stowage and storage chart as follows:

A. Amend entry 6 by deleting the present text and insert in lieu thereof:

Explosive projectiles: bombs; torpedoes; mines; rifle or hand grenades (explosive); jet thrust units (Jato), Class A; igniters, jet thrust, Class A; rocket motors, Class A; igniters, rocket motor, Class A.

B. Amend entry 8 by deleting the present text and insert in lieu thereof:

Ammunition for cannon with empty, inert-loaded or solid projectiles, or without projectiles; rocket ammunition with empty, inert-loaded or solid projectiles.

C. Amend entry 9 by deleting the present text and insert in lieu thereof:

Propellant explosives, Class B; jet thrust units (Jato), Class B; igniters, jet thrust, Class B; rocket motors, Class B; igniters, rocket motor, Class B; starter cartridges, jet engine.

§ 146.20-100 [Amended]

14. Section 146.20-100 Table A—Classification: Class A; dangerous explosives is amended as follows:

A. Amend "Jet thrust units (Jato), Class A explosives, etc." as follows:

(1) In column 1, after "Jet thrust units (Jato), Class A explosives" insert the following:

Rocket motors, Class A explosives.

(2) In column 1, after "Igniters, jet thrust (Jato), Class A explosives", add the following:

Igniters, rocket motor, Class A explosives.

(3) In column 2, delete "Jet thrust units are designed, etc." and insert in lieu thereof:

Jet thrust units are designed to be ignited by an electric igniter. They are used to assist airplanes to take off.

Rocket motors are devices containing a propelling charge and consisting of one or more continuous type combustion units closed at one end (closure may be an igniter with a thrust plate) and with one or more nozzles at the other end. (The rocket motor carries its own solid oxidizer-fuel combination.) The propelling charge consists of a mixture of chemicals which when ignited is capable of burning rapidly and producing considerable pressure and which will sustain a detonation.

(4) In column 2, delete "Devices consisting of, etc." and insert in lieu thereof:

Igniters are devices consisting of an electrically operated or remotely controlled ignition element and a charge of fastburning composition meeting the definition for Type I Class A explosives, assembled in a unit, for use in igniting the propelling charge of jet thrust units or rocket motors.

(5) In column 2, after "ICC regulations require that, etc." insert the following:

Jet thrust units or rocket motors may be packed in the same outside shipping container with their separately packaged igniters or igniter components when these containers are approved by the ICC or are of approved military specifications complying with § 146.02-8(a).

(6) In column 2, delete "Each outside package, etc." and insert in lieu thereof:

Each outside package must be plainly marked "JET THRUST UNIT, CLASS A EXPLOSIVES", "ROCKET MOTOR, CLASS A EXPLOSIVES", "IGNITERS, JET THRUST, CLASS A EXPLOSIVES", or "IGNITERS, ROCKET MOTOR, CLASS A EXPLOSIVES", as appropriate.

(7) In column 4, after "Wooden boxes or, etc." insert the following:

Wooden boxes, wooden crates, or other containers of approved military specifications complying with § 146.02-8(a).

(8) In column 4, delete "Jet thrust units (Jato), etc." and insert in lieu thereof:

Jet thrust units; rocket motors; igniters, jet thrust, or rocket motor, Class A explosives, packed or prepared for shipment in any other manner must be approved by the Commandant, U.S. Coast Guard.

B. Amend "Rocket ammunition with explosive projectiles, etc." as follows:
(1) In column 2, delete "Rocket ammunition (including guided missiles), etc." and insert in lieu thereof:

Rocket ammunition (including guided missiles) is ammunition designed for launching from a tube, launcher, rails, trough or other launching device, in which the propellant material is a solid propellant explosive. It consists of an igniter, rocket motor, and a projectile (warhead) either fused or unfused, containing high explosives or chemicals. Rocket ammunition may be shipped completely assembled or may be shipped unassembled in one outside container.

§ 146.20-200 [Amended]

15. Section 146.20-200 Table B—Classification: Class B; less dangerous explosives is amended as follows:

A. Amend "Jet thrust units (jato), Class B explosives, etc." as follows:

(1) In column 1, after "Jet thrust units (jato), Class B explosives" insert the following:

Rocket motors, Class B explosives.

(2) In column 1, after "Igniters, jet thrust (jato), Class B explosives", add the following:

Igniters, rocket motor, Class B explosives.

(3) In column 2, delete all present text and insert in lieu thereof:

Jet thrust units (jato) are metal cylinders containing a mixture of chemicals capable of burning rapidly and producing considerable pressure. Jet thrust units are designed to be ignited by an electric igniter. They are used to assist airplanes to take off.

Rocket motors are devices containing a propelling charge and consisting of one or more continuous type combustion units, closed at one end (closure may be an igniter with a thrust plate) and with one or more nozzles at the other end. The propelling charge consists of a mixture of chemicals which when ignited is capable of burning rapidly and producing considerable pressure and which will not sustain a detonation. (The rocket motor carries its own solid oxidizer-fuel combination). Rocket motors are designed to be ignited by an electrically actuated device which may be an igniter, or by other means. They are used to propel or provide thrust for guided missiles, rockets, or spacecraft. Igniters are devices consisting of an electrically operated or remotely controlled ignition element and a fast burning composition which functions by rapid burning rather than detonation, assembled in a unit, for use in igniting the propelling charge of jet thrust units, rocket motors, or rocket engines.

Jet thrust units or rocket motors may be packed in the same outside shipping container with their separately packaged igniters or igniter components when these containers are approved by the ICC or are of approved military specifications complying with § 146.02-8(a).

Igniters must not be shipped assembled in the units unless shipped by, for, or to the Departments of the Army, Navy, and Air Force of the United States Government.

Each outside package must be plainly marked "JET THRUST UNIT, CLASS B EXPLOSIVES," "ROCKET MOTOR, CLASS B EXPLOSIVES," "IGNITERS, JET THRUST, CLASS B EXPLOSIVES," "IGNITERS, ROCKET MOTOR, CLASS B EXPLOSIVES," as appropriate.

(4) In column 4, under "Outside containers" delete all text and insert in lieu thereof:

Wooden boxes or, wooden boxes fiberboard lined (ICC-14, 15A, 15B, 16A) not over 500 lb. gr. wt.

Wooden boxes, wooden crates, or other containers of approved military specifications complying with § 146.02-8(a).

Authorized only for igniters, Class B explosives: Wooden boxes (ICC-15B) not over 200 lb. gr. wt. Fiberboard boxes (ICC-23F) WIG, not over 75 lb. gr. wt.

Jet thrust units; rocket motors; igniters, jet thrust, or rocket motor, Class B explosives, packed or prepared for shipment in any other manner must be approved by the Commandant of the U.S. Coast Guard.

B. Amend "Rocket ammunition with empty projectiles, etc." as follows:

(1) In column 1, delete "Rocket ammunition without projectiles".

(2) In column 2, delete all the present text and insert in lieu thereof:

Fixed ammunition which is fired from a tube, launcher, rails, trough, or other device as distinguished from cannon ammunition which is fired from a cannon, gun or mortar. It consists of an igniter, a rocket motor, and an empty projectile, inert-loaded projectile or solid projectile.

Each outside package must be plainly marked "ROCKET AMMUNITION WITH EMPTY PROJECTILES," "ROCKET AMMUNITION WITH INERT-LOADED PROJECTILES," or "ROCKET AMMUNITION WITH SOLID PROJECTILES" as appropriate.

C. Amend "Starter cartridges, jet engines, Class B explosives" as follows:

Starter cartridges, jet engine, consist of plastic or rubber cases, each containing a pressed cylindrical block of propellant explosive and having in the top of the case a small compartment that encloses an electrical squib, small amounts of black powder, and smokeless powder, which constitutes an igniter. It is used to activate a mechanical starter for jet engines.

Igniter wires must be short-circuited when packed for shipment.

Each outside package must be plainly marked "STARTER CARTRIDGES, JET ENGINE, CLASS B EXPLOSIVES."

Subpart 146.21—Detailed Regulations Governing Inflammable Liquids

16. Section 146.21-25 is amended by changing paragraphs (a) and (b) to read as follows:

§ 146.21-25 "Under deck" stowage.

(a) Stowage of inflammable liquids "Under deck" shall be in ventilated holds.

(b) Inflammable liquids that are permitted by the regulations in this subpart to be stowed in a cargo hold or a compartment on board a passenger vessel shall not be so stowed unless the compartment or hold authorized for such stowage is fitted with either an overhead water sprinkler system or fixed fire smothering system.

Subpart 146.22—Detailed Regulations Governing Inflammable Solids and Oxidizing Materials

17. Section 146.22-30 is amended by changing paragraph (c) (1) and (2) as follows:

§ 146.22-30 Authorization to load or discharge ammonium nitrate and ammonium nitrate fertilizers.

(c) (1) Ammonium nitrate and ammonium nitrate products (prills, crystals, grains or flakes) containing 90 percent or more ammonium nitrate by weight with no organic coating, including fertilizer grade, dynamite grade, nitrous oxide grade and technical grade, and ammonium nitrate phosphate (60 percent or more ammonium nitrate by weight) with no organic coating, packaged in multiwall paper bags or other nonrigid combustible containers, or rigid containers with combustible inside packings, shall be loaded or discharged at facilities removed from congested areas and/or those having high value or high hazard industrial facilities. A permit is required for this transaction.

(i) This facility shall conform with port security and local regulations and shall provide an abundance of water for fire fighting.

(ii) This facility shall be so located as to permit unrestricted passage to open water. The vessel shall be moored bow to seaward, and shall be maintained in a mobile status either by presence of tugs or readiness of engines. The vessel shall provide at the bow and stern a wire towing hawser having an eye splice and lowered to the water's edge.

(iii) The detailed requirements of § 146.22-100 pertaining to these products and other applicable sections of this part shall be strictly adhered to.

(2) Ammonium nitrate and ammonium nitrate products (prills, crystals, grains or flakes) containing 90 percent or more ammonium nitrate by weight with no organic coating, including fertilizer grade, dynamite grade, nitrous oxide grade, and technical grade, and ammonium nitrate phosphate (60 percent or more ammonium nitrate by weight) with no organic coating, packaged in ICC or nonspecification metal or fiber drums, barrels or kegs, wooden or fiberboard boxes with noncombustible inside packings, may be loaded or discharged at any waterfront facility which conforms to port security and local regulations. No permit is required for this transaction. These ICC or nonspecification containers may contain the ammonium nitrate products packaged in ICC approved plastic bags or the outside containers may have an inside ICC approved plastic liner.

18. Section 146.22-40 is amended by changing paragraph (b) to read as follows:

§ 146.22-40 Nitro carbo nitrate.

(b) Nitro carbo nitrate packaged in burlap bags, multiwall paper bags or

other nonrigid combustible containers or rigid containers with combustible inside packings shall be loaded or discharged at facilities so remotely situated from populous and congested areas and/or high value or high hazard industrial facilities that in the event of fire or explosion, loss of lives and property may be minimized. A permit authorizing such loading or discharging shall be obtained by the owner, agent, charterer, master or person in charge of the vessel from the Coast Guard District Commander or his authorized representative. Stowage shall be in conformity with § 146.22-30(f).

(1) This facility shall conform with port security and local regulations and shall provide an abundance of water for fire fighting.

(2) This facility shall be located as to permit unrestricted passage of open water. The vessel shall be moored bow to seaward, and shall be maintained in a mobile status either by presence of tugs or readiness of engines. The vessel shall provide at the bow and stern a wire towing hawser having an eye splice and lowered to the water's edge.

§ 146.22-100 [Amended]

19. Section 146.22-100 Table E—*Classification: Inflammable solids and oxidizing materials* is amended as follows:

A. Amend the following items as indicated:

1. Ammonium nitrate (no organic coating), etc.
2. Ammonium nitrate phosphate (no organic coating), etc.
3. Ammonium nitrate-carbonate mixtures, etc.
4. Ammonium nitrate mixed fertilizer, etc.

(1) In columns 4, 6, and 7, after "Wooden barrels or kegs" add the following:

Wooden or fiberboard boxes, WTC

(2) In column 4, wherever applicable, delete:

(see § 146.22-30(c)(2))

B. Amend the following items as indicated:

1. Chlorates, etc.
2. Phosphorus, white or yellow, in water, etc.
3. Sodium, metallic.

(1) In column 4, delete "Tank cars complying with ICC regulations" and insert in lieu thereof:

Tank cars complying with ICC regulations (trainships only).
Motor vehicle tank trucks complying with ICC regulations (trailerships and trainships only).

C. Amend the following items as indicated:

1. Chlorates, wet, etc.
2. Potassium nitrate mixed (fused), etc.
3. Rubber scrap, etc.

(1) In column 4, delete "Tank cars, etc." and insert in lieu thereof:

Tank cars complying with ICC regulations (trainships only).

Subpart 146.23—Detailed Regulations Governing Corrosive Liquids

§ 146.23-100 [Amended]

20. Section 146.23-100 Table F—*Classification: Corrosive liquids* is amended as follows:

A. Amend the following items as indicated:

1. Acetyl chloride.
2. Alkaline corrosive battery fluid, etc.
3. Allyl trichlorosilane.
4. Amyl trichlorosilane.
5. Antimony pentachloride.
6. Benzoyl chloride.
7. Benzyl chloride.
8. Bromine compound liquid.
9. Bromine.
10. Butyl trichlorosilane.
11. Caustic potash, liquid, etc.
12. Chloroacetyl chloride.
13. Chromyl chloride.
14. Cupriethylene-diamine solution.
15. Cyclohexenyl trichlorosilane.
16. Cyclohexyl trichlorosilane.
17. Diethyl dichlorosilane.
18. Di iso octyl acid phosphate.
19. Dimethyl sulfate.
20. Diphenyl dichlorosilane.
21. Dodecyl trichlorosilane.
22. Electrolyte (acid) or corrosive battery fluid, etc.
23. Ethyl phenyl dichlorosilane.
24. Hexadecyl trichlorosilane.
25. Hexamethylene diamine solution.
26. Hexyl trichlorosilane.
27. Hydrazine anhydrous, etc.
28. Hydrobromic acid.
29. Hydrofluoric acid, anhydrous.
30. Monochloroacetic acid, liquid.
31. Nitrating (mixed) acid.
32. Nitric acid.
33. Nonyl trichlorosilane.
34. Octadecyl trichlorosilane.
35. Octyl trichlorosilane.
36. Phenyl trichlorosilane.
37. Phosphorus oxychloride.
38. Phosphorus trichloride.
39. Propyl trichlorosilane.
40. Pyro sulfuryl chloride, etc.
41. Sludge acid, etc.
42. Sodium aluminate, liquid.
43. Sodium chlorite solutions, etc.
44. Sulfur chloride (mono and di).
45. Sulfur trioxide, stabilized.
46. Sulfuric acid, etc.
47. Sulfuryl chloride.
48. Thionyl chloride.
49. Thiophosphoryl chloride.
50. Tin tetrachloride, anhydrous.
51. Titanium sulfate solution, etc.
52. Titanium tetrachloride.
53. Water treatment compound, liquid.

(1) In column 4, delete "Tank cars complying with ICC regulations" and insert in lieu thereof:

Tank cars complying with ICC regulations (trainships only).
Motor vehicle tank trucks complying with ICC regulations (trailerships and trainships only).

B. Amend "Antimony pentachloride solution" as follows:

(1) In column 4, delete "Tank cars complying with ICC regulations".

C. Amend the following items as indicated:

1. Chlorine trifluoride.
2. Flame retardant compound, liquid.
3. Fluosulfonic acid.

(1) In column 4, delete "Tank cars complying with ICC regulations" and insert in lieu thereof:

Tank cars complying with ICC regulations (trainships only).

D. Amend "Formic acid, etc." as follows:

(1) In column 4, delete "Tank cars complying with ICC regulations stenciled 'For Formic Acid Only'" and insert in lieu thereof:

Tank cars complying with ICC regulations (trainships only).

E. Amend "Hydrochlorid (muriatic) acid, etc." as follows:

(1) In column 4, delete "Tank cars complying with ICC regulations" and insert in lieu thereof:

Tank cars complying with ICC regulations (trainships only).

(2) In column 4, after "Portable tanks, rubber lined, etc." insert the following:

Motor vehicle tank trucks complying with ICC regulations (Trailerships and trainships only).

F. Amend "Hydrofluoric acid" as follows:

(1) In column 4, delete "Tank cars complying with ICC regulations" and insert in lieu thereof:

Tank cars complying with ICC regulations (trainships and trailerships only).

(2) In column 4, add the following:

Hydrofluoric acid of any strength except anhydrous: Motor vehicle tank trucks complying with ICC regulations (trainships and trailerships only).

G. Amend "Hydrogen peroxide, etc." as follows:

(1) In column 4, delete "Tank cars complying with ICC regulations" and "Highway vehicle cargo tanks" and insert in lieu thereof:

Tank cars complying with ICC regulations (trainships only).

Highway vehicle cargo tanks (trailerships and trainships only).

Subpart 146.24—Detailed Regulations Governing Compressed Gases

§ 146.24-100 [Amended]

21. Section 146.24-100 Table G—*Classification: Compressed gases* is amended as follows:

A. Amend the following items as indicated:

1. Aqua ammonia, etc.
2. Argon.
3. Chlorine, etc.
4. Crude nitrogen fertilizer solution.
5. Dichlorodifluoromethane.
6. Dichlorodifluoromethane-dichlorotetrafluoroethane mixture, etc.
7. Dichlorodifluoromethane and difluoroethane mixture, etc.
8. Dichlorodifluoromethane-monofluorotrichloromethane mixture.
9. Fertilizer, ammoniating solution, etc.
10. Helium.
11. Hexafluoropropylene.
12. Monobromotrifluoromethane.
13. Monochlorodifluoromethane.
14. Monochlorotetrafluoroethane.

15. Nitrogen.
16. Nitrogen fertilizer solution.
17. Nitroethyl chloride.
18. Oxygen.

(1) In column 4, delete "Tank cars complying with ICC regulations" and insert in lieu thereof:

Tank cars complying with ICC regulations (trainships only).

B. Amend the following items as indicated:

1. Anhydrous ammonia, etc.
2. Carbon dioxide, etc.
3. Sulfur dioxide.

(1) In column 4, delete "Tank cars complying with ICC regulations" and insert in lieu thereof:

Tank cars complying with ICC regulations (trainships only).

(2) In column 4, delete "Tank motor vehicle, etc." and insert in lieu thereof:

Motor vehicle tank trucks complying with ICC regulations (trailerships and trainships only).

C. Amend the following items as indicated:

1. Aqua ammonia, etc.
2. Chlorine, etc.
3. Dichlorodifluoromethane.
4. Dichlorodifluoromethane-dichlorotetrafluoroethane mixture, etc.
5. Dichlorodifluoromethane - monofluorotrichloromethane mixture.
6. Hexafluoropropylene.
7. Monochlorodifluoromethane.

(1) In column 4, add the following:

Motor vehicle tank trucks complying with ICC regulations (trailerships and trainships only).

D. Amend "Nitrous oxide" as follows:

(1) In column 4, delete "Tank motor vehicles complying with ICC motor carrier regulations" and insert in lieu thereof:

Motor vehicle tank trucks complying with ICC regulations (trailerships and trainships only).

Subpart 146.25—Detailed Regulations Governing Poisonous Articles

§ 146.25-200 [Amended]

22. Section 146.25-200 Table II—Classification: Class B; less dangerous poisons is amended as follows:

A. Amend the following items as indicated:

1. Acetone cyanhydrin.
2. Alcohol, allyl, etc.
3. Aldrin mixtures, liquid, etc.
4. Aniline oil, liquid.
5. Arsenic acid, liquid.
6. Arsenic chloride (arsenous), liquid, etc.
7. Arsenical compounds or mixtures, N.O.S., liquid, etc.
8. Carbolic acid (phenol), liquid, etc.
9. Compounds, tree or weed killing, liquid.
10. Oxide of potassium, liquid, etc.
11. Dinitrobenzol, liquid.
12. Dinitrophenol solutions.
13. Drugs, chemicals, medicines or cosmetics, N.O.S. (liquid), etc.
14. Insecticide, liquid.
15. Mercuric iodide solution.
16. Nicotine hydrochloride, etc.
17. Nitrobenzol, liquid, etc.
18. Nitroxyol.

19. Poisonous liquids, N.O.S.
20. Sodium arsenite (solution), liquid.

(1) In column 4, delete "Tank cars complying with ICC regulations" and insert in lieu thereof:

Tank cars complying with ICC regulations (trainships only).

Motor vehicle tank trucks complying with ICC regulations (trailerships and trainships only).

B. Amend the following terms as indicated:

1. Aldrin, etc.
2. Ammonium arsenate, solid.
3. Arsenic acid, solid, etc.
4. Arsenic bromide, solid, etc.
5. Arsenic sulfide (powder), solid.
6. Beryllium compounds, solid, N.O.S.
7. Bordeaux arsenites, solid, etc.
8. Carbolic acid (phenol), solid, etc.
9. Cocculus, solid (fish berry), etc.
10. Dinitrobenzol, solid, etc.
11. Drugs, chemicals, medicines or cosmetics, N.O.S. (solid).
12. Ferric arsenate, solid, etc.
13. Insecticide, dry, etc.
14. Lead arsenate, solid.
15. Mercury compounds, solid, etc.
16. Nicotine salicylate, etc.
17. Nitrochlorobenzene, meta or para, solid, etc.
18. Poisonous solids, N.O.S.
19. Potassium arsenate, solid, etc.
20. Thallium salts, solid, etc.
21. Zinc arsenate, etc.

(1) In column 4, delete "Tank cars complying with ICC regulations", and insert in lieu thereof:

Tank cars complying with ICC regulations (trainships only).

C. Amend "Motor fuel anti-knock compound" as follows:

(1) In column 4, delete "Tank cars complying with, etc." and insert in lieu thereof:

Authorized for stowage "Under deck away from heat."

Tank cars complying with ICC regulations (trainships only).

Motor vehicle tank trucks complying with ICC regulations (trailerships and trainships only).

D. Amend "Methyl bromide, liquid, etc." as follows:

(1) In column 4, delete "Tank cars complying with ICC regulations" and insert in lieu thereof:

Tank cars complying with ICC regulations (trainships only).

(2) In column 4, under "Authorized only for mixtures of methyl bromide and ethylene dibromide, etc." add the following:

Motor vehicle tank trucks complying with ICC regulations (trailerships and trainships only).

Subpart 146.26—Detailed Regulations Governing Combustible Liquids

23. Section 146.26-25 is amended by changing paragraph (a) to read as follows:

§ 146.26-25 "Under deck" stowage.

(a) Stowage of combustible liquids—cargo "Under deck" shall be in ventilated holds. The holds shall be fitted with

either an overhead water sprinkler system or a fixed fire smothering system.

Subpart 146.27—Detailed Regulations Governing Hazardous Asides

24. Section 146.27-30 is amended by deleting all the present text and inserting in lieu thereof:

§ 146.27-30 Automobiles or other self-propelled vehicles offered for transportation with fuel in tanks.

(a) Automobiles or other self-propelled vehicles containing any fuel in the tanks may be accepted for transportation on board vessels inspected and certificated for ocean or unlimited coastwise voyages subject to the following conditions:

(1) Before and after loading, vehicles, shall be inspected for leaks. Vehicles showing signs of leakage shall not be accepted for transportation.

(2) Equipment used for handling vehicles shall be so designed that the fuel tank and fuel system are protected from stresses that might cause rupture or other damage incident to handling.

(3) Securing means shall be adequate to prevent the vehicles from coming adrift during the voyage.

(4) Vehicles containing fuel other than a flammable liquid or gas in the tanks, when stowed in the same hold or compartment with vehicles with fuel tanks containing flammable liquid or gas, shall also be subject to paragraph (b) of this section.

(5) Spaces exposed to carbon monoxide or other hazardous vapors from the exhausts of self-propelled vehicles shall have adequate ventilation. The concentration of carbon monoxide in the atmosphere shall be kept below 100 parts per million in the holds and intermediate decks where persons are working. When necessary, portable blowers of adequate size and location shall be utilized. Such portable blowers and their intakes shall not be located in any hold or compartment containing the vehicles.

(b) Automobiles or other self-propelled vehicles with fuel tanks containing flammable liquids or gas may be accepted for transportation on board vessels inspected and certificated for ocean or unlimited coastwise voyages, subject to the following additional conditions:

(1) Automobiles or other self-propelled vehicles stowed in a hold or compartment shall have battery cables disconnected and secured away from the battery terminals. Vehicles need not have battery cables disconnected if stowed on deck or if transported below decks in spaces designated as specially suitable for carriage of such vehicles by the Administration of the country in which the vessels are registered.

(2) The fuel tank shall not be over $\frac{1}{4}$ full.

(3) The stowage shall be on deck or in a ventilated cargo hold or compartment that is fitted with an overhead water sprinkler system or fixed fire smothering system.

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(4) The hold or compartment in which the vehicles are stowed shall be equipped with a smoke or fire detecting system.

(5) Any electrical equipment in the hold or compartment except fixed explosion-proof lighting, shall be disconnected from its power supply at a location outside the compartment or hold during the time the vehicles are being handled or are stowed therein. Where the disconnecting means is a switch or circuit breaker, it shall be locked in the open position until the vehicles have been discharged. Vessels need not comply with this subparagraph if vehicles are being transported in spaces designated as specially suitable for carriage of such vehicles by the Administration of the country in which the vessels are registered.

(6) Portable electrical lights and hand flashlights used in the stowage area shall be of an approved explosion-proof type.

(7) Electrical connections for portable lights shall be made from outlets on the weather deck. Vessels need not comply with this subparagraph if vehicles are being transported in spaces designated as specially suitable for carriage of such vehicles by the Administration of the country in which the vessels are registered.

(8) No other cargo of a dangerous or hazardous nature shall be stowed in the same hold or compartment with vehicles with a flammable liquid or gas fuel in the tanks.

(9) Vehicles shall be so stowed as to allow for their inspection during transit.

(10) Two hand portable fire extinguishers of the dry chemical type of at least 15 pounds capacity shall be located in accessible locations in each hold or compartment in which automobiles are stowed.

(11) "No Smoking" signs shall be posted at each access opening to the hold or compartment.

(c) Vessels transporting automobiles or other self-propelled vehicles with empty fuel tanks shall comply with applicable requirements in § 146.27-100.

(d) Ferry vessels transporting automobiles or other self-propelled vehicles shall comply with applicable requirements of Subpart 146.08 of this part.

(e) Vessels in a service similar to ferry service but not over a designated ferry route may at the discretion of the Officer in Charge Marine Inspection, for the purposes of this section, be treated as ferry vessels covered under Subpart 146.08 of this part.

§ 146.27-100 [Amended]

25. Section 146.27-100 Table K—Classification: Hazardous articles is amended as follows:

A. Amend "Automobiles, etc." as follows:

(1) In column 1, delete "Automobiles, etc." and "Note 1 and Note 2" and insert in lieu thereof:

Automobiles, motorcycles, tractors, other self-propelled vehicles, or mechanized equipment, new or used, when offered for transportation without boxing or crating and containing gasoline, or other motor fuel within the fuel tank.

NOTE 1: This does not include motor vehicles having on board dangerous articles as lading. For regulations governing transportation of such vehicles, see §§ 146.08-1 to 146.08-55, inclusive.

NOTE 2. Automobiles, motorcycles, tractors, other self-propelled vehicles, or mechanized equipment, new or used, with or without boxing or crating and containing no gasoline or other motor fuel within the motor or fuel tank may be accepted for transportation on any type vessel without restriction, provided no dangerous articles other than those enumerated below are packed within the crate or vehicle:

(a) Two one-pint metal containers of retouching enamel, either hermetically sealed or closed with a secure friction cap.

(b) One tire repair kit containing a tube of cement of not more than 4 fluid ounces capacity, completely enclosed in an outer metal or fiberboard container.

(c) Charged electric storage batteries necessary for the normal operation of a vehicle or mechanized equipment in position within the battery holder, provided the terminals are disconnected and protected against short circuit, or if shipped outside the holder, then secured to prevent any movement of same. If a battery is packed within a boxed or crated vehicle, "This side up" marking shall be required on the outside of the shipping box or crate.

(d) Such brake fluid as is actually contained within the brake mechanism.

(e) Motor vehicles and mechanized equipment shipped by, for or to the Department of the Army, Navy or Air Force may also contain electrolyte (acid) or corrosive battery fluid in a sufficient quantity to activate the number of electric storage batteries necessary for operation of the military vehicles or equipment. It must be packed in approved inside containers, tightly and securely closed, packed in strong outside containers. Inside glass containers shall be cushioned on all sides with incombustible material in sufficient quantity to completely absorb the fluid contents in event of breakage. The outside container must be so blocked, braced or stayed within the vehicle or crate that it cannot change position during transit.

(f) Self-propelled vehicles or mobile agricultural machinery may be shipped with a container of electrolyte (acid) or corrosive battery fluid secured in a position to prevent damage and packaged as follows: Wooden boxes (ICC-15A, 15B, 15C, 16A, 19A) or Fiberboard boxes (ICC-12B, 12C) WIC, meeting the requirements of ICC regulations.

(2) In column 5, delete, "On deck in open" or "On deck protected, etc." to "may be utilized" and insert in lieu thereof:

"On deck in open" or "On deck protected," or if the vessel is provided with a compartment fitted with an overhead sprinkler system or fixed fire smothering system in any of the following locations such compartments may be utilized.

B. After "Rough ammoniate tankages, etc." add the following:

(1) In column 1, add:

Rubber curing compound, (solid) Paraquinoxone dioxime.

(2) In column 2, add:

Some of these compounds are easily ignited and burn rapidly.

The ease of ignition is increased when in dust form in the air. Care should be taken in handling to minimize dusting and spilling.

(3) In column 3, add:

No label required.

(4) In columns 4 and 5, add:

Stowage:

"On deck."

"Under deck."

Outside containers:

Tight, sift-proof drums, barrels or boxes.

Sift-proof multiwall paper bags.

Sift-proof lined burlap bags.

(5) In column 6, add:

Ferry stowage (AA)

Outside containers:

Tight, sift-proof drums, barrels or boxes.

Sift-proof multiwall paper bags.

Sift-proof lined burlap bags.

Covered vehicles loaded with the material in bulk may be transported provided the lading shows no sign of sifting.

(6) In column 7, add:

Ferry stowage (BB)

Outside containers:

Tight, sift-proof drums, barrels or boxes.

Sift-proof multiwall paper bags.

Sift-proof lined burlap bags.

Covered vehicles loaded with the material in bulk may be transported provided the lading shows no sign of sifting.

Subpart 146.29—Detailed Regulations Governing the Transportation of Military Explosives and Hazardous Munitions on Board Vessels

26. Section 146.29-39 is amended by adding paragraph (n) to read as follows:

§ 146.29-39 Handling and slinging of explosives.

(n) Only safety hooks or hooks that have been moused by wire shall be utilized in loading or discharging drafts of military explosives or munitions.

27. Section 146.29-59 is amended by changing paragraph (d) (1) as follows:

§ 146.29-59 Stowage adjacent to other dangerous articles.

(d) Military vehicles with electrolyte. . . .

(1) In glass or earthenware containers, not exceeding 160 ounces capacity (1 imperial gallon) in fiberboard cartons of a size to permit cushioning with an incombustible, absorbent material of a sufficient amount to absorb the contents of the container in event of breakage. The outside container shall consist of a wooden box (ICC-15A, 16B or Army Specification) in which 1, 2, 3, or 4 fiberboard cartons may be packed. Battery electrolyte may also be shipped in 1-gallon polyethylene bottles made and packaged in accordance with Military Specification 207B, Type IV, Class I. The outside containers shall carry the white (acid) label. No military ammunition shall be included within this package.

(R.S. 4405, as amended, 4462, as amended, 4472, as amended; 48 U.S.C. 875, 416, 176. Interpret or apply sec. 3, 69 Stat. 675; 50 U.S.C. 198; E.O. 11239, 30 F.R. 9671, 3 CFR 1965 Supp. Treasury Department Orders

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Title 46—SHIPPING

Chapter 1—Coast Guard, Department of the Treasury

SUBCHAPTER N—DANGEROUS CARGOES [CGFR 66-65]

PART 146—TRANSPORTATION OR STORAGE OF EXPLOSIVES OR OTHER DANGEROUS ARTICLES OR SUBSTANCES, AND COMBUSTIBLE LIQUIDS ON BOARD VESSELS

Miscellaneous Amendments

The provisions of R.S. 4472, as amended (46 U.S.C. 170), require that the land and water regulations governing the transportation of dangerous articles or substances shall be as nearly parallel as practical. The provisions in 46 CFR 146.02-18 and 146.02-19 make the Dangerous Cargo Regulations applicable to all shipments of dangerous cargoes by vessels. The Interstate Commerce Commission in Change Order Nos. 71 and 72 has made changes in the ICC regulations with respect to definitions, descriptive names, classifications, specifications of

containers, packing, marking, labeling, and certification for certain dangerous cargoes, which are now in effect for land transportation. Various amendments to the Dangerous Cargo Regulations in 46 CFR Part 146 have been included in this document in order that these regulations governing water transportation of certain dangerous cargoes will be as nearly parallel as practicable with the regulations of the Interstate Commerce Commission which govern the land transportation of the same commodities.

The major editorial amendments are to 46 CFR 146.22-100. This table formerly included entries for both inflammable solids and oxidizing materials. These editorial changes will separate the classes into two tables, § 146.22-100 for inflammable solids and § 146.22-200 for oxidizing materials.

The amendments to 46 CFR Part 146 are considered to be interpretations of law, or revised requirements to agree with existing ICC regulations, or editorial in nature, and it is hereby found that compliance with the Administrative Procedure Act (respecting notice of proposed rule making, public rule making procedure thereon, and effective date requirements thereof) is unnecessary with respect to such changes.

By virtue of the authority vested in me as Commandant, U.S. Coast Guard, by section 632 of Title 14, U.S. Code, and Treasury Department Orders 120, dated July 31, 1950 (15 F.R. 6521), and 167-14, dated November 26, 1954 (19 F.R. 8026), to promulgate regulations in accordance with the laws cited with the regulations below, the following amendments are prescribed and shall be effective January 1, 1967; however, the regulations in this document may be complied with in lieu of existing requirements prior to that date.

Subpart 146.02—General Regulations

1. Section 146.02-19 is amended by changing paragraph (a) to read as follows:

§ 146.02-19 Shipments via vessels other than common carriers.

(a) Explosives or other dangerous articles or substances packed in barrels, drums, boxes, cisterns, carboys, or bags and offered for transportation or storage on board vessels that are not common carrier vessels shall with respect to definitions, descriptions, descriptive names and classifications of explosives, inflammable liquids, oxidizing materials, corrosive liquids, compressed gases and poisonous articles, and with respect to specifications of containers for such articles or substances, and with respect to the packing, marking, labeling, and certification of such articles or substances conform to the requirements of the regulations in effect at the time of shipment as promulgated by the Interstate Commerce Commission under the title of "Explosives and Other Dangerous Arti-

cles" (49 CFR Parts 71-79) except as may be otherwise required by the regulations herein. Import or export shipments of such articles or substances shall comply with the provisions of §§ 146.02-10 and 146.02-11.

Subpart 146.03—Definitions of Words and Terms Contained Within the Regulations in This Subchapter

2. Section 146.03-18 is amended to read as follows:

§ 146.03-18 ICC regulations.

The term "ICC regulations" when used in the regulations in this part refers to regulations of the Interstate Commerce

Commission for "Explosives and Other Dangerous Articles" (49 CFR Parts 71-79) in effect at the time a shipment is moving and subject to the regulations in this part.

Subpart 146.04—List of Explosives or Other Dangerous Articles Containing the Shipping Name or Description of Articles Subject to the Regulations in This Subchapter

§ 146.04-5 [Amended]

3. Section 146.04-5 *List of explosives and other dangerous articles and combustible liquids*, is amended by adding, changing or canceling certain items as follows:

Article	Classed as—	Label required
<i>Items added</i>		
Aerosol products (see "Compressed gases, N.O.S.")	Exp. A	...
Ammunition for small arms with incendiary projectiles.	Exp. A	...
Exothermic ferrochrome.	Haz.	...
Exothermic ferromanganese.	Haz.	...
Exothermic silicon-chrome.	Haz.	...
Ferrochrome, exothermic (see "Exothermic ferrochrome")	...	...
Ferromanganese, exothermic (see "Exothermic ferromanganese")	...	...
Rocket engines (liquid), class B explosives.	Expl. B	...
Silicon-chrome, exothermic (see "Exothermic silicon-chrome")	...	...
<i>Items canceled</i>		
Ammunition for small arms with explosive bullets.	Expl. A	...
Rocket engines (liquid), Class B explosives.	Expl. B	...

Unless otherwise exempt by the provisions of the detailed regulations.

Subpart 146.20—Detailed Regulations Governing Explosives

4. Section 146.20-3 is amended by changing paragraph (q) to read as follows:

§ 146.20-3 Prohibited or not permitted explosives.

(q) New explosives and explosive devices except samples for laboratory examination and military explosives of a security classification approved by the U.S. Army Materiel Command; Commander, Naval Ordnance Systems Command, Department of the Navy; or Commander, Air Force Systems Command and Commander, Air Force Logistics Command, Department of the Air Force. All other new explosives must be approved for transportation by the Interstate Commerce Commission.

§ 146.20-20 [Amended]

5. Section 146.20-20 is amended by changing the stowage and marking chart as follows:

A. Amend entry 5 by deleting the present text and insert in lieu thereof:

Ammunition for cannon with explosive projectiles, smoke projectiles, incendiary projectiles, illuminating projectiles, and booster (explosive); and supplementary charges (explosive) without detonators.

tiles; gas projectiles, smoke projectiles, incendiary projectiles, illuminating projectiles; boosters (explosives); bursters (explosive); and supplementary charges (explosive) without detonators.

B. Amend entry 9 by deleting the present text and insert in lieu thereof:

Propellant explosives, class B; jet thrust units (liquid), class B; igniters, jet thrust, class B; rocket motors, class B; rocket engines (liquid), class B; igniters, rocket motor, class B; starter cartridges, jet engine, class B.

§ 146.20-100 [Amended]

6. Section 146.20-100 *Table A—Classification: Class A; dangerous explosives* is amended as follows:

A. Amend "Ammunition for cannon with explosive projectiles, etc." as follows:

(1) In column 4, delete "Polyethylene containers, etc." and insert in lieu thereof:

Plastic containers as specified by ICC.

B. Amend "Ammunition—Projectiles, grenades, bombs, mines and torpedoes, etc." as follows:

(1) In column 4, under "Outside containers" insert the following:

Explosive bombs packed more than one per shipping container having gross weights not in excess of 1,400 pounds may be shipped by, for, or to the Departments of the Army, Navy, and Air Force of the U.S. Government.

C. Amend "Ammunition for small arms with explosive bullets, etc." as follows:

(1) In column 1, delete:

Ammunition for small arms with explosive bullets.

(2) In column 1, add the following:

Ammunition for small arms with incendiary projectiles.

(3) In column 2, delete "Fixed ammunition, etc." and insert in lieu thereof:

Fixed ammunition of caliber 20 millimeter to be used in machine guns or cannons, and consists of a metallic cartridge case, the primer and the propelling charge, with explosive or incendiary projectile, with or without detonating fuse, the component parts necessary for one firing being all in one assembly.

(4) In column 2, delete "ICC packing regulations, etc." and insert in lieu thereof:

Detonating fuzes, tracer fuzes, explosive, or ignition devices or fuze parts with explosives contained therein must not be assembled in ammunition or included in the same outside package unless shipped by, for or to the Departments of the Army, Navy, and Air Force of the U.S. Government or unless of a type approved by the Interstate Commerce Commission.

(5) In column 2, delete "Each outside package, etc." and insert in lieu thereof:

Each outside package must be plainly marked "Ammunition for Small Arms With Explosive Projectiles" or "Ammunition for Small Arms With Incendiary Projectiles."

(D) Amend "Blasting caps—more than 1,000, etc." as follows:

(1) In column 4, delete "Fiberboard boxes, etc." and insert in lieu thereof:

Fiberboard boxes:
(ICC-23F, 23H) WIC, not over 75 lb. gr. wt.
(ICC-12H) WIC, not over 103 lb. gr. wt.

§ 146.20-200 [Amended]

6a. Section 146.20-200 *Table B—Classification: Class B; less dangerous explosives* is amended as follows:

A. After "Fireworks, special (flash effects)" insert the following:

(1) In column 1, insert:

Fireworks, special (exceeding 90 pounds in wt. ea.).

Illuminating projectiles.

Incendiary projectiles.

Smoke projectiles.

(2) In column 2, insert:

May be shipped without being boxed only by, for, or to the Departments of the Army, Navy, and Air Force of the U.S. Government when securely stowed in accordance with methods prescribed in Subpart 146.29 of this Subchapter.

§ 146.20-300 [Amended]

7. Section 146.20-300 *Table C—Classification: Class C; relatively safe explosives* is amended as follows:

A. Amend "Blasting Caps—1,000 or less, etc." as follows:

(1) In column 4, delete "Fiberboard boxes: (ICC-12H, 23F, 23D) WIC, not over 75 lb. gr. wt." and insert in lieu thereof:

Fiberboard boxes:
(ICC-23F, 23H) WIC, not over 75 lb. gr. wt.
(ICC-12H) WIC, not over 103 lb. gr. wt.

B. Amend "Small arms ammunition, etc." as follows:

(1) In column 2, delete "Small arms ammunition, etc." and insert in lieu thereof:

Small arms ammunition is fixed ammunition consisting of a metallic, plastic composition, or paper cartridge case, a primer and a propelling charge, with or without bullet, projectile, shot, tear gas material, tracer components, or incendiary compositions or mixtures, and is further limited to the following:

Ammunition of caliber less than 20 millimeters with incendiary, solid, inert, or empty projectiles (with or without tracers), designed to be fired from machine guns or cannons.

20 millimeter ammunition other than ammunition for small arms with explosive or incendiary projectiles.

Blank cartridges, including canopy remover cartridges, starter cartridges, and seat ejector cartridges, containing not more than 500 grains of propellant powder: *Provided*, That such cartridges shall be incapable of functioning en masse as a result of the functioning of any single cartridge in the container or as a result of exposure to external flame.

Subpart 146.21—Detailed Regulations Governing Inflammable Liquids

§ 146.21-100 [Amended]

8. Section 146.21-100 Table D—Classification: *Inflammable liquids* is amended as follows:

A. Amend the following items as indicated:

1. Alcohol, N.O.S., etc.
2. Allyl bromide, etc.
3. Amyl nitrite.
4. Antifreeze compounds, liquid, etc.
5. Box toe gum, etc.
6. Butyl acetate.
7. Butyraldehyde.
8. Cement, leather, etc.
9. Cigar and cigarette lighter fluid.
10. Coal tar distillate, etc.
11. Compounds cleaning liquid, etc.
12. Compounds, lacquer, paint, or varnish, etc.
13. Compounds, tree or weed killing, liquid.
14. Crotonaldehyde.
15. Crude oil, petroleum, etc.
16. Dimethylamine aqueous solution, etc.
17. Drugs, chemicals, medicines, or cosmetics, N.O.S.
18. Ethyl acetate.
19. Ethyl methyl ketone, etc.
20. Ethylene dichloride.
21. Heptane.
22. Ink, etc.
23. Insecticide, liquid, etc.
24. Isopropyl acetate.
25. Methyl iso-propenyl ketone, inhibited.
26. Methyl methacrylate monomer.
27. Oil, etc.
28. Paint, enamel, lacquer, etc.
29. Polishes, metal, stove, etc.
30. Pyridine, etc.
31. Resin solution, etc.
32. Road asphalt or tar, liquid, etc.
33. Sodium methyrate, alcohol mixture, etc.
34. Solvents, N.O.S.
35. Toluol, etc.
36. Turpentine substitutes, etc.
37. Xylol, etc.

(1) In columns 4, 5, 6, and 7, wherever applicable delete "Fiber drum (ICC-21C) WIC ICC-2S, ICC-2SL, not over 55 gal." and insert in lieu thereof:

Fiber drum (ICC-21P) WIC ICC-2S, ICC-2SL, not over 55 gal. cap.

B. Amend "Ethylene imine, inhibited, etc." as follows:

(1) In column 4, add the following:

Authorized only for propylene imine, inhibited:
Metal barrels or drums (ICC-5A), not over 55 gal. cap.

C. Amend "Inflammable liquids, N.O.S., etc." as follows:

(1) In column 4, under "Fiber or plywood drums" delete "(ICC-21C) WIC ICC-2S, 2SL not over 30 gal. cap." and insert in lieu thereof:

Fiber drum (ICC-21P) WIC ICC-2S, ICC-2SL, not over 55 gal. cap.

Subpart 146.22—Detailed Regulations Governing Inflammable Solids and Oxidizing Materials

9. Section 146.22-100 is amended as follows:

A. Delete the present heading and insert in lieu thereof:

§ 146.22-100 Table E—Classification:
Inflammable solids.

B. Amend the following items as indicated:

1. Barium peroxide, etc.
2. Calcium chlorite.
3. Calcium hypochlorite compounds, dry, etc.
4. Calcium peroxide.
5. Chlorates, etc.
6. Chlorates, wet, etc.
7. Chlorate and borate mixtures, etc.
8. Chlorine dioxide hydrate, frozen.
9. Chromic acid, etc.
10. Compounds, tree or weed killing, solid.
11. Dichloroisocyanuric acid, dry, etc.
12. Lithium peroxide.
13. Magnesium peroxide, solid.
14. Nitrates, etc.
15. Organic peroxides, etc.
16. Oxidizing materials, N.O.S.
17. Perochlorates, etc.
18. Permanganates, etc.
19. Potassium bromate.
20. Potassium dichloroisocyanurate, dry, etc.
21. Potassium nitrate mixed (fused) with sodium nitrite.
22. Potassium nitrite.
23. Potassium peroxide.
24. Sodium bromate.
25. Sodium chlorite.
26. Sodium nitrite, etc.
27. Sodium peroxide.
28. Strontium peroxide.
29. Tetranitromethane.
30. Zinc ammonium nitrite.
31. Zinc peroxide.
32. Zirconium picramate, wet, etc.

(1) Delete all text from § 146.22-100 and insert it in a new section as follows:

§ 146.22-200 Table E—Classification:
Oxidizing materials.

C. Amend Table 146.22-100, "Drugs, chemicals, etc.," as follows:

(1) In column 2, delete: "Or an oxidizing material".

D. Add the following entry to Table 146.22-200, after "Dichloroisocyanuric acid, dry etc."

(1) In column 1 add:

Drugs, chemicals, medicines, or cosmetics, N.O.S. When packed in accordance with ICC requirements for the particular substance, and separated and cushioned by incombustible absorbent material when the characteristics of the substance so require. (See § 146.22-25 for exemptions.)

(2) In column 2 add:

A unit substance or a compound classified as an oxidizing material in accordance with the definition contained herein, when prepared, packed and offered to the trade as drugs, chemicals, medicines, or cosmetics.

(3) In column 3 add:

Yellow-----

(4) In column 4 add:

Stowage:

"On deck protected."

"On deck under cover."

"Tween decks readily accessible."

Outside containers:

Steel barrels or drums:

(ICC-6A) not over 55 gal. cap. and not exceeding 880 lb. gr. wt.

(ICC-6B, 6C) not over 110 gal. cap. and not exceeding 1,760 lb. gr. wt.

(ICC-17C, 17E, 17H, 37A, 37B) STC, not over 55 gal. cap.

Wooden barrels or kegs:

(ICC-10A, 10B, 10C) not over 50 gal. cap. and not exceeding 600 lb. net wt.

(ICC-11A, 11B) WIC, not over 50 gal. cap. and not exceeding 600 lb. net wt.

Wooden boxes (ICC-15A, 15B, 16C, 16A, 19A) WIC not over 250 lb. gr. wt.

Fiberboard boxes (ICC-12A, 12B) WIC, not over 65 lb. gr. wt.

Fiber drums (ICC-21C) not over 250 lb. gr. wt.

Plywood drums:

(ICC-22A) not over 220 lb. gr. wt.

(ICC-22B) WIMC, not over 220 lb. gr. wt.

(5) In column 5, add:

Stowage:

"On deck under cover."

"Tween decks readily accessible."

Outside containers:

Steel barrels or drums:

(ICC-6A) not over 55 gal. cap. and not exceeding 880 lb. gr. wt.

(ICC-6B, 6C) not over 110 gal. cap. and not exceeding 1,760 lb. gr. wt.

(ICC-17C, 17E, 17H, 37A, 37B) STC, not over 55 gal. cap.

Wooden barrels or kegs:

(ICC-10A, 10B, 10C) not over 50 gal. cap. and not exceeding 600 lb. net wt.

(ICC-11A, 11B) WIC, not over 50 gal. cap. and not exceeding 600 lb. net wt.

Wooden boxes (ICC-15A, 15B, 16C, 16A, 19A) WIC, not over 250 lb. gr. wt.

Fiberboard boxes (ICC-12A, 12B) WIC, not over 65 lb. gr. wt.

Fiber drums (ICC-21C) not over 250 lb. gr. wt.

Plywood drums:

(ICC-22A) not over 220 lb. gr. wt.

(ICC-22B) WIMC, not over 220 lb. gr. wt.

(6) In column 6, add:

Ferry stowage (AA) -----

Outside containers:

Steel barrels or drums:

(ICC-6A) not over 55 gal. cap. and not exceeding 880 lb. gr. wt.

(ICC-6B, 6C) not over 110 gal. cap. and not exceeding 1,760 lb. gr. wt.

(ICC-17C, 17E, 17H, 37A, 37B) STC, not over 55 gal. cap.

Wooden barrels or kegs:

(ICC-10A, 10B, 10C) not over 50 gal. cap. and not exceeding 600 lb. net wt.
(ICC-11A, 11B) WIC, not over 50 gal. cap. and not exceeding 600 lb. net wt.

Wooden boxes (ICC-15A, 15B, 15C, 16A, 16B) WIC, not over 250 lb. gr. wt.

Fiberboard boxes (ICC-12A, 12B) WIC, not over 65 lb. gr. wt.

Fiber drums (ICC-21C) not over 250 lb. gr. wt.

Plywood drums:

(ICC-22A) not over 220 lb. gr. wt.
(ICC-22B) WIMC, not over 220 lb. gr. wt.

(7) In column 7, add:

Ferry stowage (BB).

Outside containers:

Steel barrels or drums:

(ICC-6A) not over 55 gal. cap. and not exceeding 550 lb. gr. wt.
(ICC-6B, 6C) not over 110 gal. cap. and not exceeding 1,780 lb. gr. wt.
(ICC-17C, 17E, 17H, 37A, 37B) STC, not over 55 gal. cap.

Wooden barrels or kegs:

(ICC-10A, 10B, 10C) not over 50 gal. cap. and not exceeding 600 lb. net wt.
(ICC-11A, 11B) WIC, not over 50 gal. cap. and not exceeding 600 lb. net wt.

Wooden boxes (ICC-15A, 15B, 15C, 16A, 16B) WIC, not over 250 lb. gr. wt.

Fiberboard boxes (ICC-12A, 12B) WIC, not over 65 lb. gr. wt.

Fiber drums (ICC-21C) not over 250 lb. gr. wt.

Plywood drums:

(ICC-22A) not over 220 lb. gr. wt.
(ICC-22B) WIMC, not over 220 lb. gr. wt.

E. Amend "Chromic acid, etc." as follows:

(1) In columns 4, 6 and 7, add the following:

Fiber drums (ICC-21C) WIL plastic, not over 115 lb. net wt.

F. Under "Organic peroxides" amend "Benzoyl peroxide, wet, etc." as follows:

(1) In columns 4, 5, 6, and 7, delete the following:

Steel barrels or drums (ICC-5, 5B, 6A, 6B, 6C) WIL, not over 350 lb. gr. wt.

G. Amend "Peracetic acid, etc." as follows:

(1) Relocate all present text, under "Organic peroxides," after "Lauroyl peroxide, wet, etc."

Subpart 146.23—Detailed Regulations Governing Corrosive Liquids

10. Section 146.23-100 Table F—Classification: Corrosive liquids is amended as follows:

A. Amend the following items as indicated:

1. Acid, liquid, N.O.S.
2. Alkaline corrosive battery fluid, etc.
3. Antimony pentachloride solution.
4. Boron compound, liquid.
5. Calcium peroxide, liquid, etc.
6. Carboxylic acid solution.
7. Corrosive liquid, N.O.S.
8. Cyanohydrin solution.
9. Dioxin, chemicals, intermediates, or derivatives, N.O.S., etc.
10. Formic acid, etc.
11. Hexamethylene diamine solution.
12. Hydrazine acid.
13. Sodium aluminum hydride.
14. Water-soluble organic compounds.

21C) WIC (ICC-2S, 2SL, 2U) not over 30 gal. cap." and insert in lieu thereof:

Fiber drums (ICC-21P) WIC ICC-2S, 2SL, or 2U not over 30 gal. cap.

B. Amend "Compounds, cleaning, liquid, etc." as follows:

(1) In columns 4, 5, 6, and 7, delete "Fiber drums (ICC-21C), etc." and insert in lieu thereof:

Fiber drums (ICC-21P) WIC ICC-2S, 2SL, or 2U, not over 30 gal. cap.

C. Amend "Compounds, cleaning liquid (containing hydrofluoric acid), etc."

(1) In column 4, delete "Fiber drum (ICC-21C), etc." and insert in lieu thereof:

Fiber drums (ICC-21P) WIC ICC-2U, not over 15 gal. cap.

D. Amend "Hydrochloric (muriatic) acid, etc." as follows:

(1) In columns 4, 5, 6, and 7, delete "Fiber drum (ICC-21C), etc." and insert in lieu thereof:

Fiber drums (ICC-21P) WIC ICC-2T, 2S, 2SL, or 2U, not over 225 lb. gr. wt.

E. Amend "Hydrofluosilicic acid" as follows:

(1) In column 4, delete "Fiber drum (ICC-21C), etc." and insert in lieu thereof:

Fiber drums (ICC-21P) WIC ICC-2S, 2SL, or 2U, not over 225 lb. gr. wt.

F. Amend "Hydrogen peroxide, etc." as follows:

(1) In column 4, after "Fiberboard box (ICC-12B), etc." insert the following:

Fiber drums (ICC-21P) WIC ICC-2SL with vented closure, drums marked "Keep this end up", not over 30 gal. cap.

Fiber drums (ICC-21P) WIC ICC-2U with vented closure, drums marked "Keep this end up", not over 15 gal. cap.

G. Amend "Sodium chlorite solution (not exceeding 42% sodium chlorite)" as follows:

(1) In columns 4, 5, 6, and 7, delete "Fiber drum (ICC-21C) WIC (ICC-2T, etc.)" and insert in lieu thereof:

Fiber drums (ICC-21P) WIC ICC-2T, 2S, 2SL, or 2U, not over 30 gal. cap.

H. Amend "Sulfuric acid (oil of vitriol), etc." as follows:

(1) In columns 4, 5, 6, and 7, delete "Fiber drum (ICC-21C) etc." and insert in lieu thereof:

Fiber drums (ICC-21P) WIC ICC-2T or 2U, not over 30 gal. cap.

Subpart 146.24—Detailed Regulations Governing Compressed Gases

11. Amend § 146.24-20 by changing paragraph (c), except (3); and paragraph (d) as follows:

§ 146.24-20. Exemptions for compressed gases.

(c) In inside nonrefillable metal containers charged with a solution of materials, no compressed gas or gases which are contained in the container shall be used.

(1) Capacity must not exceed 50 cubic inches (27.7 fluid ounces). Compressed gases contained in nonrefillable inside metal containers exceeding 35 cubic inches (19.3 fluid ounces) but not exceeding 50 cubic inches (27.7 fluid ounces) packaged and tested in accordance with this paragraph shall be overpacked in outside containers marked with the name of contents and labeled as prescribed in §§ 146.05-15 and 146.05-17 respectively of this Subchapter. Each outside shipping container shall also be plainly marked: "Inside Containers Comply With Prescribed Specifications."

(2) Pressure in the container must not exceed 180 p.s.i.g. at 130° F. If the pressure exceeds 140 p.s.i.g. at 130° F., but does not exceed 160 p.s.i.g. at 130° F., a specification ICC-2P inside metal container must be used; if the pressure exceeds 160 p.s.i.g. at 130° F., a specification ICC-2Q inside metal container must be used. In any event, the metal container must be capable of withstanding without bursting a pressure of 1½ times the equilibrium pressure of the content at 130° F.

(4) If any content is flammable, the flash point must not be less than 20° F.

(5) Each completed container filled for shipment must have been heated until the pressure in the container is equivalent to the equilibrium pressure of the content at 130° F. without evidence of leakage, distortion, or other defect.

(d) In inside nonrefillable metal containers charged with a solution of nonpoisonous and nonflammable materials and nonliquefied compressed gas, provided all the following conditions are met:

(1) Capacity must not exceed 50 cubic inches (27.7 fl. oz.). Compressed gases contained in nonrefillable inside metal containers exceeding 35 cubic inches (19.3 fl. oz.) but not exceeding 50 cubic inches (27.7 fl. oz.) packaged and tested in accordance with this paragraph shall be overpacked in outside containers marked with the name of contents and labeled as prescribed in §§ 146.05-15 and 146.05-17 respectively of this subchapter. Each outside shipping container shall also be plainly marked: "Inside Containers Comply With Prescribed Specifications."

(2) Pressure in container does not exceed 125 p.s.i.g. at 130° F.

(3) The metal container must be capable of withstanding without bursting a pressure of 2 times the pressure of the content at 70° F. or 1½ times the pressure of the content at 130° F., whichever is greater.

12. Section 146.24-21 is amended by changing paragraphs (b), (c), and (e) as follows:

§ 146.24-21. Exemptions for foodstuffs, soap, cosmetics, beverages, biologicals, electronic tubes, and audible frequency systems.

(b) Foodstuffs or soaps in nonrefillable metal containers not exceeding 50 cubic inch capacity (27.7 fl. oz.), with soluble or emulsified compressed gas, provided the pressure in the container does not exceed 140 p.s.i.g. at 130° F. The metal container must be capable of withstanding without bursting a pressure of 1½ times the equilibrium pressure of the contents at 130° F. Compressed gases contained in nonrefillable inside metal containers exceeding 35 cubic inches (19.3 fl. oz.) but not exceeding 50 cubic inches (27.7 fl. oz.) packaged in accordance with this paragraph shall be overpacked in outside containers marked with the name of contents and labeled as prescribed in §§ 146.05-15 and 146.05-17, respectively, of this subchapter. Each outside shipping container shall also be plainly marked: "Inside Containers Comply With Prescribed Specifications".

(c) Inside nonrefillable metal containers charged with a solution containing biological products or medical preparations which will be deteriorated by heat, and compressed gas or gases which are nonpoisonous and nonflammable, and of capacity not to exceed 35 cubic inches (19.3 fl. oz.). Pressure in the container shall not exceed 140 p.s.i.g. at 130° F., and the liquid content of the product and gas must not completely fill the container at 130° F. One completed container out of each lot of 500 or less, filled for shipment, must be heated, until the pressure in the container is equivalent to the equilibrium pressure of the contents at 130° F., without evidence of leakage, distortion, or other defect.

(e) Inside metal containers of a capacity not to exceed 35 cubic inches (19.3 fl. oz.), charged with nonflammable, nonpoisonous liquefied compressed gas to be used in conjunction with audible fire alarm systems. Pressure in the container must not exceed 70 p.s.i.g. at 70° F. The completely assembled container must be capable of withstanding without bursting a pressure of 1,000 p.s.i.g. The liquid portion of the gas must not completely fill the container at 130° F.

§ 146.24-100 [Amended]

13. Section 146.24-100 Table G—Classification: Compressed gases is amended as follows:

A. Amend "Liquefied petroleum gas" as follows:

(1) In column 2, add the following:

All liquefied petroleum gas shall be effectively odorized to indicate positively, by a distinctive odor, the presence of gas down to a concentration in air of not over one-fifth the lower limit of combustibility, as prescribed by ICC regulations.

14. Section 146.25-100 Table H—Classification: Class A; extremely dangerous poisons is amended as follows:

A. Amend "Hexaethyl tetraphosphate and compressed gas mixture, etc." as follows:

(1) In column 1, delete the present text and insert in lieu thereof:

Hexaethyl tetraphosphate and compressed gas mixture (must not contain more than 20 percent tetraethyl pyrophosphate by weight).

B. Amend "Organic phosphates, N.O.S. mixed with compressed gas, etc." as follows:

(1) In column 1, delete the present text and insert in lieu thereof:

Organic phosphates, N.O.S. mixed with compressed gas (must contain not more than 30 percent by weight of organic phosphate).

C. Amend "Parathion and compressed gas mixture, etc." as follows:

(1) In column 1, delete the present text and insert in lieu thereof:

Parathion and compressed gas mixture (must not contain more than 20 percent parathion by weight).

D. Amend "Tetraethyl pyrophosphate and compressed gas mixture, etc." as follows:

(1) In column 1, delete the present text and insert in lieu thereof:

Tetraethyl pyrophosphate and compressed gas mixture (must not contain more than 20 percent tetraethyl pyrophosphate by weight).

E. Amend "Tetraethyl dithio pyrophosphate and compressed gas mixture, etc." as follows:

(1) In column 1, delete the present text and insert in lieu thereof:

Tetraethyl dithio pyrophosphate and compressed gas mixture (must not contain more than 20 percent tetraethyl dithio pyrophosphate by weight).

F. Amend the following items as indicated:

1. Hexaethyl tetraphosphate and compressed gas mixture, etc.
2. Organic phosphates, N.O.S. mixed with compressed gas, etc.
3. Parathion and compressed gas mixture, etc.
4. Tetraethyl pyrophosphate and compressed gas mixture, etc.
5. Tetraethyl dithio pyrophosphate and compressed gas mixture, etc.

(1) In column 4, delete "Outside containers, etc." and insert in lieu thereof:

Outside containers: Cylinders, boxed (ICC-3A300, 3AA300, 3B300, 4A300, 4B240, 4BA240) charged with not more than 10 lbs. of the mixture and to a maximum filling density of 80 percent of the water capacity. Not more than 12 cylinders in one outside wooden box, nor more than 4 cylinders in one outside fiberboard box.

Subpart 146.27—Detailed Regulations Governing Hazardous Articles

§ 146.27-100 [Amended]

15. Section 146.27-100 Table K—Classification: Hazardous articles is amended as follows:

A. Amend "Phosphoric acid" as follows:

(1) In column 1, add:

NOTE: For bulk shipments, see Subchapter I (Cargo and Miscellaneous Vessels) of this chapter.

(2) In column 4, delete:

Bulk as specifically approved by Commandant.

16. Add a new § 146.27-50 to read as follows:

§ 146.27-50 Phosphoric acid in bulk.

Phosphoric acid may be carried in bulk only in inspected and certificated cargo barges, tank barges, or cargo vessels. For applicable requirements, see Part 98 of Subchapter I (Cargo and Miscellaneous Vessels) of this chapter.

Dated: December 6, 1966.

[SEAL] W. J. SMITH,
Admiral, U.S. Coast Guard
Commandant.

[F.R. Doc. 66-13244; Filed, Dec. 9, 1966;
8:45 a.m.]



VOL 32, NO. 238

SATURDAY, DECEMBER 9, 1967

Title 46—SHIPPING

Chapter I—Coast Guard, Department of Transportation

SUBCHAPTER D—TANK VESSELS

SUBCHAPTER I—CARGO AND MISCELLANEOUS VESSELS

[CFR 67-82]

PART 39—FLAMMABLE OR COMBUSTIBLE LIQUIDS HAVING LETHAL CHARACTERISTICS

PART 98—SPECIAL CONSTRUCTION, ARRANGEMENT, AND PROVISIONS FOR CERTAIN DANGEROUS CARGOES IN BULK

Miscellaneous Amendments

1. Pursuant to the notice of proposed rule making published in the FEDERAL REGISTER of January 24, 1967 (32 F.R. 795-807), and the Merchant Marine Council Public Hearing Agenda dated March 20, 1967 (CG-249), the Merchant Marine Council held a public hearing on March 20, 1967, for the purpose of receiving comments, views, and data. The proposals considered were identified as Items PH 1-67 to PH 13-67, inclusive. Item PH 2-67 contained proposals regarding bulk dangerous cargoes (CG-249, pages 65 to 75, inclusive), and these proposals, as revised, are adopted and set forth in this document.

2. The oral and written comments received were considered and certain changes were made in the proposals in Item PH 2-67. The proposal regarding shipping papers for cargo barges carrying certain dangerous cargoes in Item PH 2a-67 (CG-249, page 65) was revised. The proposals regarding draft marks to be placed on cargo barges carrying certain dangerous cargoes in Item PH 2b-67 (CG-249, pages 66 and 67) are withdrawn. The proposals regarding barges carrying liquid chlorine in bulk in Item

PH 2c-67 (CG-249, pages 68 to 71, inclusive) are accepted. The proposal regarding barges carrying anhydrous ammonia in bulk in Item PH 2d (CG-249, page 72) is accepted with editorial changes. The proposals regarding venting of tank barges carrying liquids having lethal characteristics in Item PH 2e-67 (CG-249, pages 73 to 75, inclusive) are accepted. The Merchant Marine Council's actions with respect to comments on proposals in Item PH 2-67 are approved.

3. By virtue of the authority vested in me as Commandant, U.S. Coast Guard, by section 632 of Title 14, United States Code and Department of Transportation Order 1100.1, dated March 31, 1967 (49 CFR 1.4(a)(2), 32 F.R. 5806), to promulgate regulations in accordance with the laws cited with the regulations below, the following amendments are prescribed and shall be effective January 1, 1968, for both new and existing vessels; however, the regulations in this document may be complied with in lieu of existing requirements prior to that date.

4. The authority note for Part 39 is amended to read as follows:

AUTHORITY: The provisions of this Part 39 issued under R.S. 4405, as amended, 4417a, as amended, 4472, as amended; 46 U.S.C. 875, 891a, 416. Interpret or apply R.S. 4472, as amended, 4488, as amended, sec. 8, 68 Stat. 875, sec. 6(b)(1), 80 Stat. 938; 46 U.S.C. 170, 481, 50 U.S.C. 198, 46 U.S.C. 1655(b); E.O. 11239, July 31, 1965, 30 F.R. 9971, 3 CFR, 1965 Supp. Department of Transportation Order 1100.1, Mar. 31, 1967, 49 CFR 1.4(a)(2), 32 F.R. 5806; except as otherwise noted.

Subpart 39.20—Venting and Ventilation

§ 39.20-1 [Amended]

5. Section 39.20-1 is amended by changing the heading from "Venting—TB/ALL" to "Venting—T/ALL."

6. Subpart 39.20 is amended by inserting after § 39.20-1 a new section reading as follows:

§ 39.20-2 Venting—B/ALL.

(a) Manned barges shall meet the requirements of § 39.20-1.

(b) For unmanned barges, the following requirements shall apply:

(1) The discharge fittings from each safety relief or pressure vacuum relief valve shall be directed in such a manner as to not impinge on another tank, piping or any other equipment which would increase the fire hazard should burning products be discharged from the safety or pressure vacuum relief valve as a result of a fire or other casualty. In addition, the discharges shall be directed away from areas where it is likely that persons might be working and as remote as practicable from ventilation inlets and ignition sources. A common discharge header may be employed if desired. The area near the discharge fittings shall be clearly marked as a hazardous area.

(2) A means shall be provided for either the reclamation or safe venting of vapors during the loading and unloading operations. For this purpose the safety relief or pressure vacuum relief valve shall be provided with a valved bypass

to a vapor return line shore connection which shall be used whenever vapor return shore facilities are available. In the event vapors must be vented to the atmosphere, a vent riser shall be connected to the vapor return line and extend at least 12 feet above the highest level accessible to personnel. The vent riser may be collapsible for ease of stowage when not in use. The vent riser shall not be connected to a safety relief or pressure vacuum valve. Vapor return lines or vent risers for tanks carrying the same class product may be connected to a common header system if desired.

(3) Tanks carrying Class "B" or "C" poisons shall be vented independent of tanks carrying other products.

7. The authority note for Part 98 is amended to read as follows:

AUTHORITY: The provisions of this Part 98 issued under R.S. 4405, as amended, 4483, as amended, 4472, as amended; 46 U.S.C. 375, 416, 170. Interpret or apply R.S. 4417a, as amended, 4488, as amended, sec. 8, 68 Stat. 875, sec. 6(b)(1), 80 Stat. 938; 46 U.S.C. 170, 481, 50 U.S.C. 198, 46 U.S.C. 1655(b); E.O. 11239, July 31, 1965, 30 F.R. 9971, 3 CFR, 1965 Supp. Department of Transportation Order 1100.1, Mar. 31, 1967, 49 CFR 1.4(a)(2), 32 F.R. 5806; except as otherwise noted.

Subpart 98.03—Barges Carrying Dangerous Cargoes

8. Section 98.03-35 is amended by adding a new paragraph (h) at the end thereof reading as follows:

§ 98.03-35 Special operating requirements for barges carrying certain dangerous cargoes in bulk.

(h) (1) Each barge carrying dangerous cargoes shall have on board a bill of lading, manifest, or shipping document giving the following:

(i) Name of the shipper.

(ii) Location of the loading point.

(iii) Kind, grade, and approximate quantity by compartment of each kind and grade of cargo in the barge.

(2) Such bill of lading, manifest, or shipping document may be made out by the person in charge of the barge, the master of the towing vessel, or the owner of the barge or his agent: *Provided*, That in the case of any unmanned barge, the master of the towing vessel shall either have a copy of the shipping papers for such barge when in his tow or he shall make an entry in the towing vessel's logbook giving the information required by subparagraph (1) of this paragraph. A barge should not be delayed in order to secure exact quantities of cargo.

Subpart 98.05—Elemental Phosphorus in Water in Bulk

§ 98.05-50 [Amended]

9. Section 98.05-50 *General requirements* is amended by changing in paragraph (f) the title from "Commandant (MMT)" to "Commandant (MHM)."

Subpart 98.10—Sulfuric Acid in Bulk

§ 98.10-45 [Amended]

10. Section 98.10-45 *General requirements* is amended by changing in

RULES AND REGULATIONS

Paragraph (d) the title from "Commandant (MMT)" to "Commandant (MHM)."

Subpart 98.15—Hydrochloric Acid in Bulk

§ 98.15-45 [Amended]

11. Section 98.15-45 *General requirements* is amended by changing in paragraphs (f) and (g) the title from "Commandant (MMT)" to "Commandant (MHM)."

Subpart 98.18—Phosphoric Acid in Bulk

§ 98.18-45 [Amended]

12. Section 98.18-45 *General requirements* is amended by changing in paragraphs (f) and (g) the title from "Commandant (MMT)" to "Commandant (MHM)."

Subpart 98.20—Liquid Chlorine in Bulk

13. Section 98.20-40(c) is amended to read as follows:

§ 98.20-40 Cargo piping.

(c) In multiple tank installations the tanks shall not be interconnected by piping or manifolds which may contain liquid chlorine. Manifolding of vapor lines of individual tanks into a common header for connection to shore is permitted. More than one cargo tank may be filled or discharged at a time, provided each tank is filled from or discharged to shore tanks through separate lines.

14. Section 98.20-55 is amended to read as follows:

§ 98.20-55 Venting.

(a) Each cargo tank shall have the safety relief valve outlets connected to separate risers which shall extend to a reasonable height above the deck; or, the safety relief valves may discharge into the protective housing surrounding the valves. Suitable provisions shall be made to vent the housing. Other installations acceptable to the Commandant may be used. The arrangement shall be such as to minimize the hazard of escaping vapors.

(b) When vent risers are installed, they shall be designed so as to prevent stresses on safety relief valve mountings and to provide protection against physical damage. Return bands and restrictive pipe fittings shall not be used. Risers shall be fitted with loose rain caps and suitable provision shall be made for draining the vent piping if liquid can collect therein.

15. Section 98.20-80 is amended by deleting the second sentence in paragraph (b), by inserting the phrase "by volume" after the phrase "80 percent chlorine" (twice) in second sentence of paragraph (d), and by changing the phrase from "70 percent" to "75 percent" in the last sentence of paragraph (f), and these paragraphs as revised read as follows:

§ 98.20-60 Filling and discharge operation.

(b) Prior to the start of filling operations, care shall be exercised to insure that the cargo tank(s) is empty and free from foreign matter.

(d) After the filling operation is completed the vapor above the liquid chlorine in the cargo tank shall be analyzed to determine the percentage of gaseous chlorine in the vapor space. If it should contain less than 80 percent chlorine, by volume, vapors shall be withdrawn through the vent or vapor line until the vapor content in the cargo tanks shows at least 80 percent chlorine, by volume.

(f) The chlorine in the cargo tanks shall be discharged by the pressure differential method. Where the vapor pressure of the chlorine is not sufficient to force the liquid out of the tank, compressed air may be used to secure the desired rate of discharge, provided the air is oil-free and thoroughly dried by passing it over activated aluminum oxide, silica gel, or other acceptable drying agent. The compressed air systems shall contain a relief valve arranged and set so that the air pressure in the cargo tank cannot exceed 75 percent of the allowable pressure of the tank.

§ 98.20-70 [Amended]

16. Section 98.20-70 *Special operating requirements* is amended by changing in paragraphs (e) and (f) the title from "Commandant (MMT)" to "Commandant (MHM)."

Subpart 98.25—Anhydrous Ammonia in Bulk

§ 98.25-90 [Amended]

17. Section 98.25-90 *Special operating requirements* is amended by changing in paragraph (c) the title from "Commandant (MMT)" to "Commandant (MHM)."

18. Section 98.25-95(a) is amended to read as follows:

§ 98.25-95 Tests and inspections.

(a) Each cargo tank shall be subjected to an external examination at least once in each 3 calendar years. To the extent and if deemed necessary by the marine inspector, sufficient insulation shall be removed from insulated tanks at least once in each 3 calendar years to permit spot external examination of the tanks and insulation. The marine inspector may require that the thickness of the tanks be gaged by an acceptable non-destructive means without removal of insulation. An external examination of unlagged tanks and the visible parts of lagged tanks shall be made at each biennial inspection.

Subpart 98.35—Portable Tanks For Combustible Liquids

§ 98.35-7 [Amended]

19. Section 98.35-7 *Plan approval* is amended by changing in paragraph (a) the title from "Commandant (MMT)" to "Commandant (MHM)" and by changing the Zip number from "20226" to "20591."

Dated: December 5, 1967.

W. J. SMITH,
Admiral, U.S. Coast Guard,
Commandant.

[F.R. Doc. 67-14866; Filed, Dec. 8, 1967;
8:48 a.m.]

Dist. (SDL No. 85)

A: None

B: n(35); c(16); q(6); g(5);
e(3); d(2); bp(1)

C: m(4); o(1)

D: ir(2); k(1)

E: m(2); o(1)

F: None

List 112

PH 2c-67 (CG-249, pages 68 to 71, inclusive) are accepted. The proposal regarding barges carrying anhydrous ammonia in bulk in Item PH 2d (CG-249, page 72) is accepted with editorial changes. The proposals regarding venting of tank barges carrying liquids having lethal characteristics in Item PH 2e-67 (CG-249, pages 73 to 75, inclusive) are accepted. The Merchant Marine Council's actions with respect to comments on proposals in Item PH 2-67 are approved.

3. By virtue of the authority vested in me as Commandant, U.S. Coast Guard, by section 632 of Title 14, United States Code and Department of Transportation Order 1100.1, dated March 31, 1967 (49 CFR 1.4(a)(2), 32 F.R. 5606), to promulgate regulations in accordance with the laws cited with the regulations below, the following amendments are prescribed and shall be effective January 1, 1968, for both new and existing vessels; however, the regulations in this document may be complied with in lieu of existing requirements prior to that date.

4. The authority note for Part 39 is amended to read as follows:

AUTHORITY: The provisions of this Part 39 issued under R.S. 4405, as amended, 4417a, as amended, 4462, as amended; 46 U.S.C. 375, 391a, 416. Interpret or apply R.S. 4472, as amended, 4488, as amended, sec. 3, 68 Stat. 675, sec. 6(b)(1), 80 Stat. 938; 46 U.S.C. 170, 481, 50 U.S.C. 198, 49 U.S.C. 1655(b); E.O. 11239, July 31, 1965, 30 F.R. 9671, 3 CFR, 1965 Supp. Department of Transportation Order 1100.1, Mar. 31, 1967, 49 CFR 1.4(a)(2), 32 F.R. 5606; except as otherwise noted.

Subpart 39.20—Venting and Ventilation

§ 39.20-1 [Amended]

5. Section 39.20-1 is amended by changing the heading from "Venting—TB/ALL" to "Venting—T/ALL."

6. Subpart 39.20 is amended by inserting after § 39.20-1 a new section reading as follows:

§ 39.20-2 Venting—B/ALL.

(a) Manned barges shall meet the requirements of § 39.20-1.

(b) For unmanned barges, the following requirements shall apply:

(1) The discharge fittings from each safety relief or pressure vacuum relief valve shall be directed in such a manner as to not impinge on another tank, piping or any other equipment which would increase the fire hazard should burning products be discharged from the safety or pressure vacuum relief valve as a result of a fire or other casualty. In addition, the discharges shall be directed away from areas where it is likely that persons might be working and as remote as practicable from ventilation inlets and ignition sources. A common discharge header may be employed if desired. The area near the discharge fittings shall be clearly marked as a hazardous area.

(2) A means shall be provided for either the reclamation or safe venting of vapors during the loading and unloading operations. For this purpose the safety relief or pressure vacuum relief valve shall be provided with a valved bypass

to a vapor return line shore connection which shall be used whenever vapor return shore facilities are available. In the event vapors must be vented to the atmosphere, a vent riser shall be connected to the vapor return line and extend at least 12 feet above the highest level accessible to personnel. The vent riser may be collapsible for ease of stowage when not in use. The vent riser shall not be connected to a safety relief or pressure vacuum valve. Vapor return lines or vent risers for tanks carrying the same class product may be connected to a common header system if desired.

(3) Tanks carrying Class "B" or "C" poisons shall be vented independent of tanks carrying other products.

7. The authority note for Part 98 is amended to read as follows:

AUTHORITY: The provisions of this Part 98 issued under R.S. 4405, as amended, 4462, as amended, 4472, as amended; 46 U.S.C. 375, 416, 170. Interpret or apply R.S. 4417a, as amended, 4488, as amended, sec. 3, 68 Stat. 675, sec. 6(b)(1), 80 Stat. 938; 46 U.S.C. 170, 481, 50 U.S.C. 198, 49 U.S.C. 1655(b); E.O. 11239, July 31, 1965, 30 F.R. 9671, 3 CFR, 1965 Supp. Department of Transportation Order 1100.1, Mar. 31, 1967, 49 CFR 1.4(a)(2) 32 F.R. 5606; except as otherwise noted.

Subpart 98.03—Barges Carrying Dangerous Cargoes

8. Section 98.03-35 is amended by adding a new paragraph (h) at the end thereof reading as follows:

§ 98.03-35 Special operating requirements for barges carrying certain dangerous cargoes in bulk.

(h) (1) Each barge carrying dangerous cargoes shall have on board a bill of lading, manifest, or shipping document giving the following:

(i) Name of the shipper.
(ii) Location of the loading point.
(iii) Kind, grade, and approximate quantity by compartment of each kind and grade of cargo in the barge.

(2) Such bill of lading, manifest, or shipping document may be made out by the person in charge of the barge, the master of the towing vessel, or the owner of the barge or his agent: *Provided*, That in the case of any unmanned barge, the master of the towing vessel shall either have a copy of the shipping papers for such barge when in his tow or he shall make an entry in the towing vessel's logbook giving the information required by subparagraph (1) of this paragraph. A barge should not be delayed in order to secure exact quantities of cargo.

Subpart 98.05—Elemental Phosphorus in Water in Bulk

§ 98.05-50 [Amended]

9. Section 98.05-50 *General requirements* is amended by changing in paragraph (f) the title from "Commandant (MMT)" to "Commandant (MHM)."

Subpart 98.10—Sulfuric Acid in Bulk

§ 98.10-45 [Amended]

10. Section 98.10-45 *General requirements* is amended by changing in

Title 46—SHIPPING

Chapter I—Coast Guard, Department of Transportation

SUBCHAPTER D—TANK VESSELS

SUBCHAPTER I—CARGO AND MISCELLANEOUS VESSELS

[CFR 67-86]

PART 39—FLAMMABLE OR COMBUSTIBLE LIQUIDS HAVING LETHAL CHARACTERISTICS

PART 98—SPECIAL CONSTRUCTION, ARRANGEMENT, AND PROVISIONS FOR CERTAIN DANGEROUS CARGOES IN BULK

Miscellaneous Amendments

1. Pursuant to the notice of proposed rule making published in the FEDERAL REGISTER of January 24, 1967 (32 F.R. 795-807), and the Merchant Marine Council Public Hearing Agenda dated March 20, 1967 (CG-249), the Merchant Marine Council held a public hearing on March 20, 1967, for the purpose of receiving comments, views, and data. The proposals considered were identified as Items PH 1-67 to PH 13-67, inclusive. Item PH 2-67 contained proposals regarding bulk dangerous cargoes (CG-249, pages 65 to 75, inclusive), and these proposals, as revised, are adopted and set forth in this document.

2. The oral and written comments received were considered and certain changes were made in the proposals in Item PH 2-67. The proposal regarding shipping papers for cargo barges carrying certain dangerous cargoes in Item PH 2a-67 (CG-249, page 65) was revised. The proposals regarding draft marks to be placed on cargo barges carrying certain dangerous cargoes in Item PH 2b-67 (CG-249, pages 66 and 67) are withdrawn. The proposals regarding barges carrying liquid chlorine in bulk in Item

RULES AND REGULATIONS

paragraph (f) the title from "Commandant (MMT)" to "Commandant (MHM)."

Subpart 98.15—Hydrochloric Acid in Bulk

§ 98.15-45 [Amended]

11. Section 98.15-45 *General requirements* is amended by changing in paragraphs (f) and (g) the title from "Commandant (MMT)" to "Commandant (MHM)."

Subpart 98.18—Phosphoric Acid in Bulk

§ 98.18-45 [Amended]

12. Section 98.18-45 *General requirements* is amended by changing in paragraphs (f) and (g) the title from "Commandant (MMT)" to "Commandant (MHM)."

Subpart 98.20—Liquid Chlorine in Bulk

13. Section 98.20-40(c) is amended to read as follows:

§ 98.20-40 Cargo piping.

(c) In multiple tank installations the tanks shall not be interconnected by piping or manifolds which may contain liquid chlorine. Manifolding of vapor lines of individual tanks into a common header for connection to shore is permitted. More than one cargo tank may be filled or discharged at a time, provided each tank is filled from or discharged to shore tanks through separate lines.

14. Section 98.20-55 is amended to read as follows:

§ 98.20-55 Venting.

(a) Each cargo tank shall have the safety relief valve outlets connected to separate risers which shall extend to a reasonable height above the deck; or, the safety relief valves may discharge into the protective housing surrounding the valves. Suitable provisions shall be made to vent the housing. Other installations acceptable to the Commandant may be used. The arrangement shall be such as to minimize the hazard of escaping vapors.

(b) When vent risers are installed, they shall be designed so as to prevent stresses on safety relief valve mountings and to provide protection against physical damage. Return bends and restrictive pipe fittings shall not be used. Risers shall be fitted with loose rain caps and suitable provision shall be made for draining the vent piping if liquid can collect therein.

15. Section 98.20-60 is amended by deleting the second sentence in paragraph (b), by inserting the phrase "by volume" after the phrase "80 percent chlorine" (twice) in second sentence of paragraph (d), and by changing the phrase from "0 percent" to "75 percent" in the last sentence of paragraph (f), and these paragraphs as revised read as follows:

§ 98.20-60 Filling and discharge operation.

(b) Prior to the start of filling operations, care shall be exercised to insure that the cargo tank(s) is empty and free from foreign matter.

(d) After the filling operation is completed the vapor above the liquid chlorine in the cargo tank shall be analyzed to determine the percentage of gaseous chlorine in the vapor space. If it should contain less than 80 percent chlorine, by volume, vapors shall be withdrawn through the vent or vapor line until the vapor content in the cargo tanks shows at least 80 percent chlorine, by volume.

(f) The chlorine in the cargo tanks shall be discharged by the pressure differential method. Where the vapor pressure of the chlorine is not sufficient to force the liquid out of the tank, compressed air may be used to secure the desired rate of discharge, provided the air is oil-free and thoroughly dried by passing it over activated aluminum oxide, silica gel, or other acceptable drying agent. The compressed air systems shall contain a relief valve arranged and set so that the air pressure in the cargo tank cannot exceed 75 percent of the allowable pressure of the tank.

§ 98.20-70 [Amended]

16. Section 98.20-70 *Special operating requirements* is amended by changing in paragraphs (e) and (f) the title from "Commandant (MMT)" to "Commandant (MHM)."

Subpart 98.25—Anhydrous Ammonia in Bulk

§ 98.25-90 [Amended]

17. Section 98.25-90 *Special operating requirements* is amended by changing in paragraph (d) the title from "Commandant (MMT)" to "Commandant (MHM)."

18. Section 98.25-95(a) is amended to read as follows:

§ 98.25-95 Tests and inspections.

(a) Each cargo tank shall be subjected to an internal examination at least once in each 8 calendar years. To the extent and if deemed necessary by the marine inspector, sufficient insulation shall be removed from insulated tanks at least once in each 8 calendar years to permit spot external examination of the tanks and insulation. The marine inspector may require that the thickness of the tanks be gaged by an acceptable non-destructive means without removal of insulation. An external examination of unlagged tanks and the visible parts of lagged tanks shall be made at each biennial inspection.

Subpart 98.35—Portable Tanks For Combustible Liquids

§ 98.35-7 [Amended]

19. Section 98.35-7 *Plan approval* is amended by changing in paragraph (a) the title from "Commandant (MMT)" to "Commandant (MHM)" and by changing the Zip number from "20226" to "20691."

Dated: December 5, 1967.

W. J. SMITH,
Admiral, U.S. Coast Guard,
Commandant.

[F.R. Doc. 67-14365; Filed, Dec. 8, 1967;
8:46 a.m.]